City of Tacoma Comments August 2005 Preliminary Draft

Phase I Municipal Stormwater NPDES and State Waste Discharge General Permit

May16, 2005

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	Coverage Date
Issuance Date: Effective Date:	

Dormit

National Pollutant Discharge Elimination System and State Waste Discharge General Permit for Discharges from Large and Medium Municipal Separate Storm Sewer Systems

Expiration Date:

STATE OF WASHINGTON DEPARTMENT OF ECOLOGY OLYMPIA, WASHINGTON 98504-7600

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1251 et seq.

Until this permit expires, is modified, or revoked, Permittees that have properly obtained coverage under this permit are authorized to discharge to waters of the state in accordance with the special and general conditions which follow.

Dave Peeler
Water Quality Program Manager
Department of Ecology

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¹ Terms that are included in the definitions and acronyms section are indicated in italics the first time they are used in the text of the permit.

1	CONVENTIONS USED FOR COMMENTS AND EDITS
2	 All comments are bracketed and shown in bold, underlined font.
3	• All suggested edits are shown in red strikeout and blue font underline format.
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6	General comments on the permit document:
7	• Provide an expanded table of contents, especially Section S7 Stormwater Program
8	Provide page numbers on the table of contents
9 10	 Provide a running footer at the bottom of the page with section numbers The permit is extraordinarily long and complicated, so continuing to list the section
11	number and subsection letter would help
12	• There are way too many activities required in the first part of the permit. It will not
13	be realistic to complete all of them in the required time frames
14	
15	
16	SPECIAL CONDITIONS
17	S1. PERMIT COVERAGE AND PERMITTEES.
18 19 20 21 22 23	A. Permit Coverage Area This permit covers discharges from Large and Medium Municipal Separate Storm Sewer Systems (MS4s) as established at Title 40 CFR 122.26, except for municipal separate storm sewers (MS3s) owned or operated by the Washington State Department of Transportation.
24 25 26	B. The following entities had coverage under a previous municipal <i>stormwater</i> permit and reapplied for coverage. Their coverage date under this permit begins on the effective date of this permit. These entities are covered under this permit as Permittees:
27	The City of Seattle
28	The City of Tacoma
29	King County
30	Snohomish County
31	Pierce County
32	Clark County
33 34 35 36 37 38	C. King County had coverage under a previous municipal stormwater permit, as a Co- Permittee with the City of Seattle, and reapplied for coverage. Their coverage date under this permit begins on the effective date of this permit. King County is covered as a Co-Permittee with the City of Seattle for discharges it owns or operates in the City of Seattle.

1 to discharge through facilities regulated under the Underground Injection Control 2 (UIC) program, Chapter 173-218 WAC, are not covered under this permit. 3 4. Stormwater discharges to ground waters not in hydraulic continuity with surface 4 water are covered in this permit only under state authorities, Chapter 90.48 RCW, 5 the Water Pollution Control Act. 6 B. This permit authorizes discharges of stormwater associated with industrial and construction activity, process wastewater, and non-stormwater discharges from 7 8 municipal separate storm sewers owned or operated by the Permittee, to waters of the 9 state, only under the following conditions: 10 1. Non-stormwater discharges and process wastewater must be authorized by another National Pollutant Discharge Elimination (NPDES) permit or identified by 11 12 and in compliance with Special Condition S7.C.8 Illicit Connections and Illicit 13 Discharges Detection and Elimination; or 14 2. Stormwater associated with industrial activity, as defined by 40CFR122.26(b)(14), 15 must be authorized by a separate individual or general NPDES permit, such as the Industrial Stormwater General Permit, Construction Stormwater General Permit, or 16 another General Permit or individual permit issued by the Department. 17 18 C. This permit authorizes discharges from fire fighting activities, except training exercises, 19 unless the discharges from fire fighting activities are identified as significant sources of pollutants to waters of the State. [Delete this verbiage. Fire fighting activities are 20 done on an emergency basis to protect life and property. The protection of 21 22 water quality is of secondary concern during a fire.] 23 D. This permit does not authorize illicit discharges except as allowed in Special Condition 24 S7.C.8. Illicit Connections and Illicit Discharges Detection and Elimination, nor does it 25 relieve entities responsible parties responsible for illicit discharges, including spills of oil or hazardous substances, from responsibilities and liabilities under state and federal 26 27 laws and regulations pertaining to those discharges. 28 [Section D in the 1995 permit stated that the permit did not authorize discharges to waters on trust lands of the Puyallup Tribe. This language is now missing. 29 30 Does this imply that any discharges we make into the Puyallup River in sections 31 controlled by the Tribe are authorized by this permit? Why was this section taken out? Are other tribes now delegated as well, and do they need to be 32 33 included in the permit? The language in the 1995 permit is adequate for this

S3. RESPONSIBILITIES OF PERMITTEES, CO-PERMITTEES, AND SECONDARY PERMITTEES

[Delete secondary permittees.]

distinction.]

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A. Each Permittee, Co-Permittee and Secondary Permittee is responsible for compliance with the terms of this permit for the municipal separate storm sewers it owns or operates.

- 1. Each Permittee is required to comply with all conditions of this permit, except for S8., Stormwater management program for Co-Permittees and Secondary Permittees.
 - 2. Each Co-Permittee and Secondary Permittee is required to comply with all conditions of this permit, except for Special Condition S7., *Stormwater management program for Permittees*.
 - B. Permittees, Co-Permittees and Secondary Permittees may rely on another entity to meet one or more of the requirements of this permit, if the other entity, in fact, implements the control measure, and agrees to implement the control measure on the Permittee's behalf. Permittees that are relying on another entity to satisfy one or more or their permit obligations remain responsible for permit compliance if the other entity fails to implement the permit conditions. Where permit responsibilities are shared they must be documented as follows:
 - Permittees and Co-Permittees that are continuing coverage under this permit must submit a statement that describes the permit requirements that will be implemented by other entities. The statement must be signed by all participating entities. There is no deadline for submitting such a statement, provided that this does not alter implementation deadlines.
 - 2. Secondary Permittees must submit an NOI that describes which requirements they will implement and identify the entities that will implement the other permit requirements in the area served by the secondary Permittee's MS4. A statement confirming the shared responsibilities, signed all participating entities, must accompany the NOI. Secondary Permittees may amend their NOI, during the term of the permit, to establish, terminate, or amend shared responsibility arrangements, provided this does not alter implementation deadlines.
 - C. Unless otherwise noted, all appendices to this permit are incorporated by this reference as if set forth fully within this permit.

S4. TOTAL MAXIMUM DAILY LOAD ALLOCATIONS

- A. The following requirements apply if an applicable Total Maximum Daily Load (TMDL) is approved for stormwater discharges from MS4s owned or operated by the Permittee. Applicable TMDLs or applicable TMDL requirements are TMDLs that which have been approved by EPA and for which an approved Detailed Implementation Plan (DIP) has been adopted by Ecology on or before the issuance date of this permit, or which have been approved by EPA or prior to the date that the Permittees application is received by Ecology, which ever is later. All Permittees must be in compliance with applicable TMDL requirements.
- B. For TMDLs not listed in Appendix 6 of this permit, which is by this reference as if set forth fully herein, compliance with this permit shall constitute compliance with all applicable TMDLs. Permittees shall track actions required by this Permit that are relevant to applicable TMDLs within their jurisdiction. Each Permittee shall monitor implementation of actions required to achieve compliance with the TMDL. The status of TMDL implementation must be included as part of the annual reporting requirements submitted to Ecology. Documentation of all relevant actions implemented that affect MS4 discharges to the waterbody segment that is the subject of the TMDL must be included in the annual report

- C. For TMDLs and Permittees listed in Appendix 6, listed Permittees shall comply with the TMDL requirements identified in Appendix 6.
 - If water quality monitoring is a specific requirement of a TMDL listed in Appendix 6, the Permittee must develop and implement a TMDL monitoring Quality Assurance Project Plan (QAPP). The Permittee shall submit the TMDL QAPP no later than 90 days after the effective date of this permit, unless otherwise specified in Appendix 6. The monitoring plan shall be submitted to the Department in both paper and electronic form and shall include:
 - a. A detailed discussion and description of the goal and objective(s), monitoring (experimental) design, and sampling and analytical methods.
 - b. A list and maps of the selected TMDL monitoring sites.
 - c. The frequency of data collection to occur at each station or site and the number and types of precipitation events to be targeted for sampling.
 - d. The method and location(s) of precipitation measuring devices.
 - e. The triggers for automated flow monitoring devices.
 - f. The parameters to be measured, as appropriate for and relevant to the TMDL.
 - g. The QAPP will be implemented beginning no later than <u>90 days after receiving</u> review approval from Ecology. <u>180 days after the effective date of this permit.</u>
 - 2. For TMDLs listed in Appendix 6, affected Permittees shall include, as part of the Permittee's annual report to the Department, a TMDL Summary Implementation Report. The report shall include the status and actions taken by the Permittee to implement the TMDL. The TMDL Summary Report shall document relevant actions taken by the Permittee that affect MS4 discharges to the waterbody segment that is the subject of the TMDL. The report must also identify the status of any applicable TMDL implementation schedule milestones.
- D. For TMDLs that are approved by EPA after this permit is issued, the Department may establish TMDL related permit requirements through future permit modification, administrative orders, or when this permit is reissued. Permittees are encouraged to participate in development of TMDLs within their jurisdiction and to begin implementation. The Department may modify this permit to incorporate requirements from TMDLs completed after the issuance of this permit if the Department determines implementation of actions, monitoring or reporting necessary to demonstrate reasonable further progress toward achieving TMDL waste load allocations, and other targets, are not occurring and must be implemented during the term of this permit.

S5. COMPLIANCE WITH STANDARDS

A.S5.A This permit does not authorize a violation of Washington State surface water quality standards (Chapter 173-201A WAC), ground water quality standards (Chapter 173-200 WAC), sediment management standards (chapter 173-204 WAC), or human health-based criteria in the national Toxics Rule (Federal Register, Vol. 57, NO. 246, Dec. 22, 1992, pages 60848-60923).

 [As you are aware, none of the Phase I permittees are comfortable with this language that splits out new stormwater discharges. It takes us away from a system-wide, Maximum Extent Practicable (MEP) technical approach, and steers us toward the end-of-pipe Water Quality Standards (WQS) based approach. This doesn't work for the City of Tacoma as it sets us up for failure and lawsuits.

We suggest using one of the following two alternative ways of changing the language as originally proposed by King County:

- a. Municipalities regulated under this permit shall protect water quality by using controls that reduce the discharge of pollutants form their municipal storm sewer systems to the Maximum Extent Practicable (MEP).S5.B Existing Stormwater Discharges. In order to meet the goals of the Clean Water Act and make progress towards compliance with applicable surface water, ground water and sediment management standards for all existing stormwater discharges, each Permittee is required to use controls to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP). Compliance with the terms of this permit will satisfy this requirement, or
- b. In order to meet the goals of the Clean Water Act and address compliance with applicable surface water, ground water and sediment management standards, municipalities regulated under this permit must use controls that reduce the discharge of pollutants from their MS4 to the Maximum Extent Practicable (MEP). Compliance with the terms of this permit will satisfy this requirement.]
- B. Delete this section since it is already covered in General Condition G14. Existing

 Stormwater Discharges. In order to meet the goals of the Clean Water Act and make progress towards compliance with applicable surface water, ground water and sediment management standards for all existing stormwater discharges, each Permittee is required to reduce the discharge of pollutants to the Maximum Extent Practicable (MEP).

To meet the requirement to reduce the discharge of pollutants to the MEP, each Permittee shall comply with the requirements of this permit.

- C.<u>New Stormwater Discharges.</u> All new stormwater discharges must comply with all applicable surface water, ground water and sediment management standards. New stormwater discharges, authorized or allowed by the Permittee, shall not cause or contribute to a violation of applicable standards. New stormwater discharges include new stormwater sources and new stormwater outfalls, including all sources contributing to the new stormwater outfall. Compliance with water quality standards shall be determined as follows:
 - 1. If the new stormwater discharge is controlled in accordance with the technical standards in Appendix 1 (which is by this reference as if set forth fully herein) and in compliance with the terms of this permit, then the discharge is in compliance unless site-specific information as in 2, below, indicates otherwise. From the effective date of this permit until the date the Permittee adopts the technical

1 standards in this permit, including, at a minimum Appendix 1, the Best 2 management Practices (BMP) selection and site planning process, types of BMPs 3 and design criteria for BMPs required under S7.C.5 of this permit, each Permittee 4 must provide information to proponents of projects that will result in new 5 stormwater discharges as follows: That new stormwater discharges are not allowed to cause or contribute to a 6 7 violation of applicable surface water, ground water and sediment management 8 standards, including the State's narrative criteria for water quality; and 9 b. That project proponents may apply the technical standards referenced in 10 paragraph S5.C.1, above, as a means of achieving compliance; and 11 c. If project proponents choose not to apply the technical standards referenced in paragraph S5.C.1, above, then they must be prepared to demonstrate that the 12 13 new stormwater discharge does not cause or contribute a violation of applicable surface water, ground water and sediment management standards. 14 15 Project proponents must be prepared to document how stormwater BMPs were selected, the pollutant removal expected from the selected BMPs, the technical 16 basis which support the performance claims for the selected BMPs, and an 17 18 assessment of how the selected BMPs will comply with applicable State water 19 quality standards and satisfy the state requirement under Chapter 90.48 RCW 20 to apply all known, available, reasonable methods of prevention, control and 21 treatment (AKART) prior to discharge. 22 If, prior to authorization of a new stormwater discharge, site-specific information 23 indicates that the technical standards in this permit, including, at a minimum 24 Appendix 1, the BMP selection and site planning process, types of BMPs and 25 design criteria for BMPs required under S7.C.5 of this permit are not sufficient to protect beneficial uses of waters of the state from impacts which cause or 26 27 contribute to loss or impairment, then additional controls necessary to protect beneficial uses must be applied. The additional controls determined necessary to 28 29 protect beneficial uses must be in place prior to the discharge from the new 30 stormwater source or outfall. D.Ecology may modify or revoke and reissue this general permit in accordance with 31 32 General Condition G14., if Ecology becomes aware of additional control measures, management practices or other actions beyond what is required in this permit, that are 33 necessary to reduce the discharge of pollutants to the MEP or to protect water quality. 34 35 Delete this section since it is already covered in General Condition G14.

S6. MONITORING

[Ecology has acknowledged in permittee advisory meetings that this section needs further significant work. Ecology has committed to work with Phase I and II permittee advisory groups to further refine the language before the next permit draft. Tacoma has provided comments to this section for discussion.

The Permit needs a process to evaluate the effectiveness of the Stormwater Management Program and a process for adaptive management and refinements of the Program. S6 ask for an adaptive management process and refinements of the Stormwater Management Program. S6.A. 1 says: ... the effectiveness of the municipal stormwater permitting and program efforts in protecting and restoring water quality and beneficial uses:

S6.A.1.a. Is implementation of the Stormwater Management Program preventing impacts from the effects of new development by controlling construction and post-construction runoff?

S6.A.1.b. Are the Permittees preventing impacts and seeing improvements to beneficial uses by implementing a comprehensive stormwater management program?

No where in the permit conditions is there a process for adaptive management, refinements or evaluating the effectiveness of the Stormwater Management Program. S7. is strictly a list of program components and S9. reporting requirements just ask for status, compliance with elements, and dollars spent. The reporting requirements should allow a Permittee to adapt program elements beyond the components listed in S7.

S6.A.1.a. Is implementation of the Stormwater Management Program preventing impacts from the effects of new development by controlling construction and post-construction runoff? This question may or may not be answered through long-term outfall monitoring alone (i.e., quantitative measures). Qualitative measures also need to be incorporated (i.e., such as inspections, illicit connection removal, complaint/spill response, public education, redevelopment, maintenance, and other municipal programs).

The permit requirements should focus on the effectiveness and operational application of the Stormwater Management Program. The monitoring should focus on the MS4 system and not the receiving waters or sources outside the MS4 system.

S6. A.1.b. Monitoring Section seems to imply that stormwater runoff is sole source that affects receiving water quality. For the most part, there is not a clear understanding on the cause and effect relationship between cumulative discharges [municipal stormwater, direct discharges (private stormwater, adjacent land owners, vessels, and wildlife), groundwater, atmospheric, etc] and receiving waters. There also needs to be recognition of upstream, boundary, baseline or natural conditions that are water quality impaired and are beyond the control of the Permittee.

 When monitoring receiving waters, all contributors need to be recognized. The effectiveness and cost of a stormwater management program should be evaluated in the context of all other contributors to the receiving waters to determine where additional controls can be most effectively implemented, if additional controls are required.

1 Efforts in protecting and restoring water quality and beneficial uses should be assessed 2 on both the WRIA-scale and local-scale. Local programs look at their efforts in 3 protecting and restoring water quality and beneficial uses within their jurisdiction. It is 4 important to understand the beneficial uses and water quality on the WRIA-scale as well 5 on the local scale and what are the cumulative effects of local scale programs on the 6 WRIA-scale. 7 8 Baseline QAPPs. If Ecology establishes baseline QAPP(s) for stormwater, receiving 9 water, and BMP effectiveness. In this way, permittees will be using the same field and 10 analytical methods and report format and content. Permittees will produce equivalent data and similar report formats that can be easier to assess, review and share 11 12 information throughout a WRIA. The resulting data can be used by Ecology to assess 13 cumulative efforts in protecting and restoring water quality and beneficial uses on a 14 WRIA-scale level. 15 16 S6.A.1.b. Are the Permittees preventing impacts and seeing improvements to beneficial 17 uses by implementing a comprehensive stormwater management program? The answer 18 to this question may be easier to answer if the numbers of contributors are small and the receiving water is small such as a creek or isolated wetland. However, as the size of the 19 20 receiving water increases so does the number of contributors and the above question is 21 too broad for one municipality to answer. 22 23 For example, two-thirds of Tacoma's watersheds discharge to the Puget Sound (i.e., 24 Commencement Bay and a number of Waterways and the Narrows. Sources of water, 25 chemicals, and solids to the Puget Sound include but are not limited to: municipal 26 stormwater, NPDES industrial and wastewater discharges, marinas and vessels, 27 background turbidity and suspended sediments, and atmospheric deposition. Puget 28 Sound water quality represents a mix of all these sources. 29 30 If Tacoma samples a single point in the Puget Sound, the water quality of this single 31 point represents the mixing of all nearby sources and the background that is already 32 present in Puget Sound waters. S6.A.1.b for Commencement Bay can not be answered 33 by a monitoring program conducted by Tacoma alone. There should be an 34 understanding of the short-term and long-term water quality throughout Puget Sound 35 and Commencement Bay and recognition of all the sources and their contribution. 36 37 Ecology should be the lead on receiving water monitoring/coordination for complex 38 systems such as the Puget Sound. A clear plan should be laid out with objectives and goals such that all parties are clear on the data needs, quality, and how the data will be 39 40 used to support the objectives and goals.] 41 42 43 44 45

Ecology is requesting comments on the objectives of the proposed monitoring program.

We are interested in assessing the effect of implementing the stormwater management programs required under this permit. This includes looking at receiving waters, stormwater quality and BMP effectiveness. The information gained will be used to provide feedback for local stormwater management programs and Ecology's permitting program.

Should Ecology require integrated, collaborative, WRIA-scale monitoring programs? WRIA-scale monitoring programs could eventually integrate monitoring among all municipal stormwater permittees, Phase I, Phase II and WSDOT. Or are independent monitoring programs adequate to development the information basis for providing feedback on stormwater management programs?

[The monitoring programs questions S6.A.1.a and b are too general to be answered solely with the use of monitoring data. The answer to these questions can be answered with both qualitative and quantitative measures. Questions S6.A.1.a and b should be moved to evaluation of the Stormwater Management Program and not included here.]

The Permittees, Port of Seattle and Port of Tacoma shall develop and implement a comprehensive long-term monitoring program. The monitoring program shall include two elements: stormwater and receiving water monitoring, and BMP effectiveness monitoring. The monitoring program must include long-term monitoring and may include short term studies. The results of the monitoring program shall be used to support the adaptive management process and lead to refinements of the Stormwater Management Program.

[Move last 2 sentences to S6.A.4 (see insert A here)]

The monitoring program must include Quality Assurance Project Plans (QAPPs) for each monitoring objective, written in accordance with Ecology's QAPP guidelines at http://www.ecy.wa.gov/biblio/0403030.html. The monitoring program must be developed by qualified staff or contractors that have experience in applying Ecology's or EPA's QAPP Guidelines.

S6.A. Stormwater and Receiving Water Monitoring

S6.A.1. The Permittees, Port of Seattle and Port of Tacoma shall develop and implement comprehensive, long-term water quality monitoring program during the term of this permit. The monitoring program shall be designed to contribute to answering the following questions aboutevaluating the effectiveness of the municipal stormwater permitting and program efforts in protecting and restoring water quality and beneficial uses.

[Move S.6.A.1.a and b questions to S.7.A]

a. Is implementation of the Stormwater Management Program preventing impacts from the effects of new development by controlling construction and postconstruction runoff?

1 2	b. Are the Permittees preventing impacts and seeing improvements to beneficial uses by implementing a comprehensive stormwater management program?
3	S6.A.2. Monitoring Program Coordination and Planning
4 5 6 7 8 9	The Permittees and ports may choose to develop the monitoring program, conduct the monitoring, and report results through an integrated, long-term, water quality monitoring program in collaboration with the other Phase I and Phase II MS4 permittees in the Water Resource Inventory Area(s) (WRIA) in which their MS4 is located; or they may independently develop a monitoring program, conduct the monitoring, and report results, in accordance with the requirements, below.
10 11 12	If a Permittee chooses to participate in the development of an integrated water quality monitoring program in collaboration with the other Permittees in the WRIA in which their MS4 is located, the collaborative effort shall be conducted as follows:
13 14 15 16 17	S6.A.2.a. Permittees that choose to participate in the development of an integrated water quality monitoring program shall form a committee for this purpose. The participating Permittees shall submit a written agreement, signed by all participants, that includes the monitoring program development schedule and responsibilities.
18 19 20	S6.A.2.b. The development and implementation of the integrated monitoring program shall be supported by the combined resources of all the participating Permittees.
21 22 23 24	S6.A.2.c. One permittee shall be identified as the lead permittee for purposes of reporting. The lead permittee shall be responsible for the overall monitoring program management and shall prepare and submit to the Department unified monitoring program plans and reports.
25 26	The activities of the lead permittee shall include, but not be limited to, the following:
27 28	 i. Coordinate and conduct Monitoring Committee meetings on an as needed basis.
29 30	 ii. Coordinate monitoring activities and participate in any subcommittees formed as necessary to coordinate monitoring activities.
31 32	 Provide technical and administrative support and inform the other permittees of the progress of monitoring activities or studies.
33 34	 iv. Coordinate all the activities with the Department, including the submittal of all reports and plans developed by the committee.
35	v. Obtain public input for any proposed monitoring plans, where applicable.
36	vi. Cooperate in the WRIA-based monitoring program.
37 38 39 40	S6.A.2.d. The non-lead permittees on the committee shall be responsible for implementing monitoring programs and coordinating among their internal departments and agencies, as appropriate, to facilitate the implementation of the monitoring program.
41 42	The activities of the non-lead permittees shall include, but not be limited to, the following:

1 2 3 4 5 6 7 8	<u>i.</u>	i. Participate in a Monitoring Committee comprised of the lead permittee and one representative of each of the other permittees. The lead permittee will take the lead role in initiating and developing the WRIA-wide monitoring activities necessary to comply with S6.A above. The committee shall meet on a regular basis as appropriate for the specific monitoring program. (at least six times per year). Each permittee shall designate one official representative to the Monitoring Committee.
9 10 11 12 13 14		The number of meetings should be based on the size of the monitoring program and the number of people involved. In addition, the frequency of meeting can be reduced as the program evolves. There should be some freedom for the permittees to set the appropriate number of meetings for the size and type of monitoring project.
15 16 17	ii.	Review, approve, and comment on all plans, strategies, and monitoring programs, as developed by the lead permittee or any permittee subcommittee to comply with this permit.
18 19	iii.	Conduct and coordinate with the lead permittee any monitoring and characterizations needed to implement the monitoring program.
20 21	iv.	Prepare and submit all required reports to the lead permittee in a timely manner.
22 23		The Permittees and ports shall support the monitoring planning efforts by ng the following resources and information:
24	<u>S6.A.3</u>	a. Counties
25 26 27 28	i.	Each County shall identify potential monitoring stations in receiving waters and in outfalls associated with those receiving waters, in small sub-basins less than ten square miles in area and representing each of the following land uses:
29		(1) Medium- to high-density urbanized,
30		(2) Areas of new development (urbanizing), and
31		(3) Low-density residential basins outside the urban growth boundary.
32 33 34	ii.	Each County shall provide maps and staff assistance as necessary to facilitate the evaluation and create a list of potential sites, and to determine land uses in the contributing areas.
35	S6.A.3	_b. Cities
36 37 38 39	i. I	Each City shall identify potential monitoring stations in receiving waters and in outfalls associated with those receiving waters, in small sub-basins less than ten square miles in area and representing each of the following land uses:
40		(1) High-density urbanized, and
41		(2) Medium- to high-density urbanized.

1 2 3	 Each City shall provide maps and staff assistance as necessary to facilitate the evaluation and create a list of potential sites, and to determine land uses in the contributing areas.
4	S6.A.3.c. Ports of Seattle and Tacoma
5 6	 Each Port shall identify potential outfalls for water quality/toxicity monitoring stations and in-line sediment traps.
7 8 9	 Each Port shall provide maps and staff assistance as necessary to facilitate the evaluation of potential sites and to determine land uses in the contributing areas.
10 11 12 13	d.S6.A.3.d. Other secondary Permittees will have no responsibilities for monitoring under this section during this permit term, however, they are required to provide information, maps and access for sampling efforts, as necessary. Other secondary Permittees are encouraged to participate in the monitoring program.
14 15 16 17 18	e.S6.A.3.e. The monitoring program shall include confirmed sampling locations distributed among the geographical areas covered by the permit and among the land uses listed in 3.a.i. and 3.b.i. above. Each sub-basin selected (except for the in-line sediment traps at the Ports) must include a receiving water sampling site and should include a minimum of two outfalls.
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20	S6.A.4. Monitoring Program Development, Review, and Approval
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2223	Ecology is requesting comments on the question of reviewing and approving the Monitoring Programs.
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25	Should the Monitoring Programs be reviewed and approved? If so, what should be the standard for review? Who is best capable of doing the review? Should an
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26	independent entity review the monitoring program? Or should Ecology build up expertise and do the review?
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27 28	independent entity review the monitoring program? Or should Ecology build up expertise and do the review? An alternative to reviewing and approving the monitoring program is to include more detailed criteria for the monitoring program in the permit. That criteria
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27 28 29 30	independent entity review the monitoring program? Or should Ecology build up expertise and do the review? An alternative to reviewing and approving the monitoring program is to include more detailed criteria for the monitoring program in the permit. That criteria
27 28 29 30 31 32 33	independent entity review the monitoring program? Or should Ecology build up expertise and do the review? An alternative to reviewing and approving the monitoring program is to include more detailed criteria for the monitoring program in the permit. That criteria would need to be developed before the permit is issued. [Water quality data for stormwater and receiving water should be the same quality (field)
27 28 29 30 31 32 33 34	independent entity review the monitoring program? Or should Ecology build up expertise and do the review? An alternative to reviewing and approving the monitoring program is to include more detailed criteria for the monitoring program in the permit. That criteria would need to be developed before the permit is issued. [Water quality data for stormwater and receiving water should be the same quality (field collection and analytical methods) throughout the entire region. Water quality monitoring
27 28 29 30 31 32 33	independent entity review the monitoring program? Or should Ecology build up expertise and do the review? An alternative to reviewing and approving the monitoring program is to include more detailed criteria for the monitoring program in the permit. That criteria would need to be developed before the permit is issued. [Water quality data for stormwater and receiving water should be the same quality (field)

1	The Ecology QAPP guidelines that are available are too general and open for
2	interpretation that has led to many versions of a QAPP resulting in months to years to get
3	Ecology approvals.
4	We recommend Ecology provide boiler plate QAPP(s) for stormwater, receiving water, and
5	BMP effectiveness. In this way, permittees will be using the same field and analytical
6	methods, QA/QC, and report format and content. Permittees will produce equivalent data
7	and similar report formats that can be easier to assess, review and share information
8	throughout the region. The resulting data can be compared to other data throughout a
9	WRIA and region.
10	The heller plate OADD should include:
10	The boiler plate QAPP should include:
11	 Objectives for each types of sampling: stormwater, receiving water, and BMP
12	effectiveness.
13	 Minimum number of samples to be collected for each type of sample/analyses (i.e.,
14	benthic sampling once/year, quarterly stormwater sampling, ten or more storms per
15	year for BMP effectiveness).
16	Data quality objectives
17	• Field and analytical procedures
18	 Number of QA/QC samples to be collected
19	Report format as listed in S6.A.5. including the following:
20	o <u>electronic data format requirements</u>
21	 a comprehensive data and QA/QC report format (see S6.A.5.c)
22	o data evaluation (summary, statistics, trend analysis etc.)
22 23	
	The seems on Costion CC is so we goe that it is nearly impossible to swentify the newscard
24	The scope or Section S6. is so vague that it is nearly impossible to quantify the personnel
25	and budget impact of such a program.]
36	
26	
27	[INSERT sentences from S.6] The monitoring program must include Quality Assurance
28	Project Plans (QAPPs) for each monitoring objective, written in accordance with Ecology's
29	QAPP guidelines at http://www.ecy.wa.gov/biblio/0403030.html. The monitoring program
30	must be developed by qualified staff or contractors that have experience in applying
31	Ecology's or EPA's QAPP Guidelines.
_	= <u></u>
32	[Or reference boiler plate QAPP(s) to be used .]
33	
34	The monitoring program and implementation plan shall be submitted no later than
35	2 years after the effective date of this permit. The monitoring program shall be
36 37	submitted in both paper and electronic form and shall include all the required
3/	elements of the QAPP, including:
38	a. A detailed discussion and description of the purpose, design, and methods of
39	the water quality monitoring program.
40	b. A list and maps of all selected receiving water and outfall sampling sites.
	a. It not and made of an ecrosica receiving water and eating contribility differ

1 2 3		requency and type of sampling (data collection and analytical methods) or monitoring effort to occur at each station or site, including but not limited
4	i.	Sampling in the receiving waters:
5 6		 Benthic invertebrates (RIV-PAC, fine sediment and temperature metrics),
7		(2) Embeddedness
8		(3) Temperature
9		(4) pH
10		(5) Hardness
11 12 13 14 15	US. Currently, BIBI is even historical reco	
16 17 18 19 20	It appears that there	nittees use these sampling requirements for lakes and marine waters? are requirements solely for streams. Methods should be provided for waters (i.e., creeks, rivers, lakes, wetlands, estuaries, and marine
21 22 23 24 25		Establishing physical conditions and trends in the stream channel. The monitoring program shall develop this strategy using information from "Monitoring Urban Streams: Strategies and Protocols for Humid-Region Lowland systems" (Environmental Monitoring and Assessment, 71 : 143-164, 2001.)
26 27 28		Flow-weighted composite storm sampling, and base flow sampling, in outfalls for the following constituents/parameters as appropriate for the monitoring objective:
29 30 31		(1) Flow, Hydrograph data including antecedent dry period, rainfall and runoff, discussion of representativeness of storm samples and storm types,
32		(2) TSS and turbidity,
33		(3) Conductivity if tidally influenced,
34		(4) Chloride,
35 36 37		(5) Metals (including, at a minimum, total and dissolved copper, zinc, , cadmium, and lead; and mercury sampling as appropriate in some high density commercial or industrial urban settings) and hardness,
38		(6) Base/Neutral/Acids (BNAs),
39 40		(7) Pesticides (commercially available and/or known to be applied roadside),

1 2	(8) Nutrients (including total nitrogen, phosphorus, nitrate/nitrite and orthophosphate),
3	(9) Biochemical oxygen demand (BOD), and
4 5	(10) Toxicity testing of a "seasonal first-flush" storm event (as defined by Ecology).
6 7 8 9 10	[Toxicity testing of the seasonal first flush storm event may by limited by the availablility of laboratories that do toxicity testing (i.e., limited supply of critters for testing, synergistic effect of everyone sampling for the same storm). To reduce the overall number of toxicity tests on the same storm event, each permittee could identify 20 percent of the outfall samples to be toxicity tested in the first year and rotate the sites selected in the following years.
12 13 14 15 16	Toxicity tests require a fair amount of volume. Collecting enough volume of stormwater for analyses can be a difficult task. The list of parameters should be prioritized for situations when enough sample volume is not achieved. Does the wording as appropriate for the monitoring objective cover prioritizing parameters based on available sample volumes?
17 18 19 20 21	 iv. Grab samples in outfalls for the following constituents/parameters as appropriate for the monitoring objective: (1) Total Petroleum Hydrocarbons (TPH) using NWTPH-Gx and NWTPH-Dx., and
22	(2) E. coli and Enterococci bacteria.
23 24 25 26 27 28 29	[It is Tacoma's experience that a majority of the stormwater events occur in the early hours of the day (1-5 AM). Grab samples are difficult to collect late at night and during the first part of the storm event. It may not be safe for the sampling crew or person at the sampling location late at night. Grab samples should be noted as "Make a reasonable attempt to collect grab samples".] v. For in-line sediment traps, percent solids, pH, metals, and BNAs as appropriate for the contributing area land use.
30 31 32 33 34 35 36 37 38 39	 The sediment traps are a useful tool for source tracing given the following considerations: Traps are installed at the end of the pipe in an attempt to represent the cumulative effect of sources in that particular drainage area. Traps are left in-place for an extended period of time (3 to 6 months) and collect data from a a variety of storms (i.e., a range of volume, duration and intensity conditions). It is inappropriate, however, to evaluate sediment trap data using sediment quality criteria because storm drains provide neither habitat nor point of compliance for aquatic life.

1 2 3	d.	The number of each type of event (e.g. baseflow; "seasonal first-flush" and/or other dry season rainfall; wet season rainfall) to be sampled at each location for each of the types of sampling identified in part C above.
4 5	e.	An approved or final monitoring plan must be adopted no later than 30 months after the effective date of this permit.
6 7 8 9 10	f.	Full implementation of the stormwater and receiving water monitoring program shall begin no later than 36 months after the effective date of this permit. The third party or parties selected to develop the monitoring plan may continue to be utilized to collect and analyze the data and to write the subsequent reports required under this permit.
11	<u>S6.A.</u> 5	5. Monitoring Program Reporting Requirements
12 13 14	<u>15</u>	e stormwater monitoring report shall be submitted by December 3131 February th each year, beginning in 2009. Each report shall include all monitoring data llected during the preceding period from October 1 through September 30.
15 16 17 18	changed to allousually takes 3	collects a storm sample on September 30 th , the due date has to be by time for the permittee to get the analytical data back from the lab. It 30 to 45 days to get data back from the lab. Data evaluation can not be il the permittee has all the data at hand.]
19 20 21 22	as mo	ach report shall also integrate data from earlier years into the analysis of results, appropriate. Permittees that choose to participate in an integrated water quality onitoring program shall submit a single integrated monitoring report. Reports all be submitted in both paper and electronic form and shall include:
23	a.	A summary of the purpose, design, and methods of the monitoring program,
24	b.	The status of implementing the monitoring program,
25 26 27	C.	A comprehensive data and QA/QC report for each part of the monitoring program, with an explanation and discussion of the results of each monitoring project,
28 29 30	d.	An analysis of the results of each part of the monitoring program, including any identified water quality problems or improvements or other trends in stormwater or receiving water quality, and
31	e.	Recommended future actions based on the findings.
32 33 34 35 36	f.	If the Permittee monitors any pollutant more frequently than required by the required monitoring program, then the results of this monitoring shall be included in the report. If the Permittee conducts any other stormwater monitoring in addition to that required in the required monitoring program, then it shall provide a description of the additional monitoring in the report.

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There is a need for more local information about the effectiveness of treatment and flow control BMPs. Much of the data about BMP effectiveness comes from other parts of the country and is based on a variety of different design criteria, rainfall types, and soil types - factors that can influence performance and make extrapolations to our situation questionable. Given the need for more data that is generated locally, how should this need be met?

The municipal stormwater permittees are the governmental entities that permit and regulate land development, and are responsible for the quality of water discharged to waters of the state through their storm sewer systems. Therefore, it seems appropriate to have the permittees primarily responsible for determining the effectiveness of measures intended to reduce the discharge of pollutants to the Maximum Extent Practicable. Is it appropriate to include BMP effectiveness monitoring as a requirement of this permit?

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[There are 2 types of structural BMPs that are used by Tacoma. Monitoring should be completed for each type to ensure that these BMPs are effective treatment and flow control BMPs. However, the party responsible to evaluate effectiveness depends on the type of structural BMP.

 ■ <u>Vender On-site BMPs: Vendors should prove effectiveness through the Technology Assessment Protocol – Ecology, TAPE, program. Ecology approves the use of these systems based on input from the Technical Review Committee (TRC).</u>

Traditional On-site BMPs: Additional information on the effectiveness of the traditional on-site BMPs as listed in the 2005 Manual and the preliminary draft permit may be needed. However this requirement should not be a condition of the

permit. A coordinated effort under Ecology would be the best use of Phase I and II resources to evaluate effectiveness of these BMPs.

An advisory committee of Phase I and II jurisdictions should be formed to identify what BMP's need further evaluation above and beyond that already done by others locally as well as nationally. A third party could conduct the monitoring or each participant could monitor one or more of the sites as a coordinated effort. QAPPs should be developed and approved by the committee to guarantee the quality of data produced.

The committee and process could be similar to the current TRC. Information from the studies would then be used by the committee to improve the design requirements in Ecology's 2005 Manual.

The Permittees and Ecologyports shall develop and implement a comprehensive, long-term BMP effectiveness monitoring program as described in this section. Structural Runoff Treatment BMPs, and Flow Reduction Strategies will be evaluated. The primary purpose of the BMP effectiveness monitoring program is to provide a feedback loop for adaptive management of the Permittees' stormwater management programs and the Department of Ecology's municipal stormwater permitting program. The BMP effectiveness monitoring program shall be designed to contribute to answering the following questions about the short term and long term performance of BMPS in protecting and restoring water quality and beneficial uses:

- a. Is implementation of the Stormwater Management Program preventing impacts from the effects of new development by controlling construction and post-construction runoff?
- b. Are the Permittees preventing impacts and seeing improvements to beneficial uses by implementing a comprehensive stormwater management program?
- 1.- Runoff Treatment BMP Effectiveness Monitoring Program Coordination and Planning.

The Permittees and ports Ecology may choose totowill develop the BMP effectiveness monitoring program, conduct the monitoring, and report results through a single long-term monitoring program that will be supported by the combined resources of all of the Permittees and the ports Ecology; or they may independently develop a BMP effectiveness monitoring program, conduct the monitoring, and report results, in accordance with the requirements, below. If a collaborative approach is chosen, the committee process outlined in S8.A.2., above, shall be followed.

The BMP effectiveness monitoring program shall be designed to evaluate all of the therunoff treatment BMPs as identified by the Permittees and Ecology listed below, at no less than 2 sites per BMP, and 6 flow reduction strategies. The monitoring program must include QAPPs for each BMP and flow reduction strategy being monitored.

Use a boiler Plate QAPP developed by Ecology or Ecology/Permittee committee. See previous comment in S6.A.]

1 2 3 4 5	QAPPs for short detention time BMPs should follow the TAPE protocols. QAPPs for long detention time BMPs will need to develop sampling protocols. —The monitoring program must be developed by qualified staff or contractors that have experience with Ecology's or EPA's Guidelines for Quality Assurance Project Plans (QAPP).
6	
7 8	The Permittees shall support monitoring planning efforts by providing the following resources and information:
9 10	 Responsibilities of Counties, Cities, and Ports of Seattle and Tacoma Permittees
11 12 13 14 15 16	i. Each Permittee shall identify potential sites where the followingfollowingrunoff treatment types of BMPs are in use or planned for installation (the BMPs shall have been/will be designed using criteria similar to the 2005 Western Washington Stormwater Management Manual). QAPPs for short detention time BMPs should follow the TAPE protocols. QAPPs for long detention time BMPs will need to develop sampling protocols. BMP treatment types may include:
18	(1) Basic Treatment
19	Biofiltration swale
20	Filter strip
21	Basic wetpond
22	Treatment wetland
23	Sand filter
24	(2) Metals/Phosphorus Treatment
25	Amended sand filter
26	Two facility treatment train
27	Compost amended filter strips
28	Bioretention
29	Large wetpond
30	(3) Oil Control
31	Linear sand filter
32	Catch basin insert
33 34	 Each Permittee shall provide a prioritized list of the types of structural treatment BMPs to monitor.
35 36 37	iii. Each City and County Permittee shall identify and describe a flow reduction strategy that is in use or planned for installation in their jurisdiction, and is suitable for monitoring.
38 39	 iv. Each Permittee shall provide staff assistance as necessary to facilitate the evaluation and selection of potential sites.

1 2	 Other special Permittees will have no responsibilities for BMP effectiveness monitoring under this section during this permit term.
3	2. BMP Effectiveness Monitoring Program Development, Review, and Approval
4	Ecology is requesting comments on the question of reviewing and approving the
5	Monitoring Programs.
6	Should the Monitoring Programs be reviewed and approved, prior to
7	implementation? If so, what should be the standard for review? Who is best
8 9	Ecology is requesting comments on the question of reviewing and approving the Monitoring Programs.
10 11 12	Should the Monitoring Programs be reviewed and approved, prior to implementation? If so, what should be the standard for review? Who is best capable of doing the review? Should an independent entity review the monitoring program? Or should Ecology build up expertise and do the review?
13	An alternative to reviewing and approving the monitoring program is to include more
14	detailed criteria for the monitoring program in the permit. That criteria would need to be developed before the permit is issued.
15 16	to be developed before the permit is issued.
17 18 19	The Permittees and ports shall submit a BMP effectiveness monitoring program plan no later than 2 years after the effective date of this permit. The monitoring plan shall be submitted in both paper and electronic form and shall include:
20 21 22	 A detailed discussion and description of the purpose, design, and methods of the BMP effectiveness monitoring program, including Quality Assurance Project Plans (QAPPs) for each BMP being monitored.
23 24	[Develop a boiler plate QAPP so that data generated is consistent throughout the region]
25 26 27	 A detailed discussion and description of the purpose, design, and methods of the flow reduction strategy monitoring program, and QAPPs for each flow reduction strategy being monitored.
28 29	 A list and maps of all proposed and selected monitoring sites, including the date of installation/construction.
30	d. The Permittees' prioritized lists of structural treatment BMPs to monitor.
31	e. Records of inspection and maintenance on each of the BMPs selected.
32	f. The methods, protocols, analytical laboratory methods to be used.
33 34	g. The frequency of data collection to occur at each station or site and the number and types of precipitation events to be targeted for sampling.
35 36 37	h. The parameters to be measured in the inflow to and outflow from each BMP, or flow reduction strategy, as appropriate for the contributing area land use and performance expectations of the selected BMP:
38	i. Flow (rate, duration and volume)

1 2	 ii. Hydrograph data including antecedent dry period, rainfall and runoff, discussion of representativeness of storm samples and storm types.
3	iii. TSS,
4	iv. pH, hardness, and temperature,
5 6	v. Metals (including, at a minimum, total and dissolved copper, zinc, arsenic, cadmium, chromium, and lead),
7	vi. Total Petroleum Hydrocarbons (NWTPH-Gx and NWTPH-Dx),
8	vii. BNAs,
9	viii. Pesticides (commercially available and/or known to be applied roadside),
10 11	ix. Nutrients (including total nitrogen, total phosphorus, nitrate/nitrite and orthophosphate),
12	x. Biochemical oxygen demand (BOD),
13	xi. E. coli and Enterocci bacteria, and/or
14	xii. Toxicity
15 16 17 18 19 20 21 22 23 24 25	[Toxicity testing of the seasonal first flush storm event may by limited by the availablility of laboratories that do toxicity testing (i.e., limited supply of critters for testing, synergistic effect of everyone sampling for the same storm). To reduce the overall number of toxicity tests on the same storm event, each permittee could identify 20 percent of the outfall samples to be toxicity tested in the first year and rotate the sites selected in the following years. Toxicity tests require a fair amount of volume. Collecting enough volume of stormwater for analyses can be a difficult task. The list of parameters should be prioritized for situations when enough sample volume is not achieved. Does the wording as appropriate for the monitoring objective cover prioritizing parameters based on available sample volumes?]
26 27 28 29	 The BMP effectiveness monitoring program must also describe a framework for Phase II Permittees in western Washington to enhance BMP effectiveness monitoring during future permit cycles.
30 31	 j. An approved BMP effectiveness monitoring plan must be adopted by no later than 30 months after the effective date of this permit.
32 33 34 35 36	k. Full implementation of the stormwater and receiving water monitoring program shall begin no later than 36 months after the effective date of this permit. The third party or parties selected to develop the monitoring plan may continue to be utilized to collect and analyze the data and to write the subsequent reports required under this permit.
37	3. BMP Effectiveness Monitoring Reporting Requirements
38 39 40 41	The BMP effectiveness monitoring report shall be submitted by December 3131 February 15th each year, beginning in 2009. Each report shall include all monitoring data collected during the preceding period from October 1 through September 30. Each report shall also integrate data from earlier years into the

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analysis of results, as appropriate. Permittees that choose to participate in an integrated water quality monitoring program shall submit a single integrated monitoring report. Reports shall be submitted in both paper and electronic form and shall include: [If a permittee collects a storm sample on September 30th, the due date has to be changed to allow time for the permittee to get the analytical data back from the lab. It usually takes 30 to 45 days to get data back from the lab. Data evaluation can not be completed until the permittee has all the data at hand.] a. A summary of the purpose, design, and methods of the monitoring program, b. The status of implementing the monitoring program. c. The status of implementing the QAPP for each part of the monitoring program, with an explanation and discussion of the results of each component, d. An analysis of the results of each component of the monitoring program, including any identified BMP performance problems, and e. Recommended future actions based on the findings. S7. STORMWATER MANAGEMENT PROGRAM Note to Reviewers: Ecology is specifically requesting comments on the organization of the Stormwater Management Program in the Phase I and Western Washington Phase II permits.

The current organization in the Phase II permit follows the EPA six minimum measures, while the organization for the Phase I municipal stormwater permit reflects the old permit and other factors. Should the two permits have a consistent organizational structure/outline for the stormwater management program? If so, should the structure follow the organization either the Phase I or Western Washington Phase II permit, or a different structure altogether?

A. Each Permittee shall implement a Stormwater Management Program (SWMP) during the term of this permit. For the purpose of this permit a stormwater management program is a set of actions comprising the *components* listed in S7.B., S7.C.1 through S7.C.10., and additional actions and activities, where necessary, to meet the requirements of applicable TMDLs.

The Stormwater Management Program should include an adaptive management process which leads to refinements of the Stormwater Management Program based on an evaluation of the effectiveness of the municipal stormwater permitting and program efforts in protecting and restoring water quality and beneficial uses:

a. Is implementation of the Stormwater Management Program preventing impacts from the effects of new development by controlling construction and post-construction runoff?

b. Are the Permittees preventing impacts and seeing improvements to beneficial uses by implementing a comprehensive stormwater management program?]

1. Each Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats with the first year annual report, in accordance with the requirements in S9 REPORTING REQUIREMENTS. The documentation of the SWMP shall be organized according to the program components in S7.C., and shall be updated annually. The SWMP documentation shall include a description of each of the program components included in S7.C, and any additional actions necessary to meet the requirements of applicable TMDLs.

Ecology is going to have develop an approval process for both Phase I and II

SWMPs. What if we submit it and there is something Ecology doesn't like?

Will they be read if there's not a requirement to do so? Will you get back to us in a timely manner so we can change the program before we get too far down a road that you won't approve of? Won't we all (permittees and Ecology) be better protected from lawsuits if Ecology approves these SWMPs based on a set of criteria (that could be derived from the report format)? We would suggest you develop an approval process. We would be willing to help with that effort.]

2. Each permittee shall <u>estimate track</u> the cost of development and implementation of the SWMP required by this section. This information shall be included in the annual report.

It is currently difficult if not impossible to track program components or even NPDES permit related expenses outside of the Surface Water Program. The proposed permit requirements would include budget and expenditure categories for permit activities across multiple Public Works, Tacoma Public Utilities and General Government offices. Tacoma needs to spend its time on other, more fruitful efforts to improve surface water quality. The permit should require that basic budget information be included in the annual report for the reporting year as well as the proposed surface water budget for the upcoming year. What is important is how each permittee meets its permit requirements and this is described in the annual report. As a tool to measure how each permittee is meeting the permit requirements, the actual activities completed are the most important.]

B. The SWMP shall be designed to <u>protect water quality by reducing reduce</u>-the discharge of pollutants from MS4s to the maximum extent practicable. <u>and protect water quality.</u>

Permittees are to continue implementation of existing stormwater management programs until they begin implementation of the updated stormwater management program in accordance with the terms of this permit, including implementation schedules.

C. The SWMP shall include the components listed below. All components are mandatory and must be implemented by each Permittee. The requirements of the stormwater

1 2 3 4	management program shall apply to municipal separate storm sewers and areas served by municipal separate storm sewers owned or operated by each Permittee. Co-Permittees and Secondary Permittees are responsible for implementation of Stormwater Management Programs as indicated in Special Condition S8.			
5	Legal Authority			
6 7 8	[All of the Phase I Permittees should have already developed the legal authority necessary to operate their programs in compliance with the first NPDES permit. There is a lot of repetition here.			
9 10 11	This section should state that "Permittees who developed and implemented these authorities under the 1995 permit are not required to resubmit information for this section."			
12 13 14 15	a. No later than the effective date of this permit, each Permittee must be able to demonstrate that they operate pursuant to adequate legal authority which authorizes or enables the Permittee to control discharges to and from municipal separate storm sewers owned or operated by the Permittee.			
16 17 18	 This legal authority, which may be a combination of statute, ordinance, permit, contracts, orders, interagency agreements, or similar means, shall include the ability to: 			
19 20 21 22	 Control the contribution of pollutants to municipal separate storm sewers owned or operated by the Permittee from stormwater discharges associated with industrial activity, and control the quality of stormwater discharged from sites of industrial activity; 			
23 24	ii. Prohibit illicit discharges to the municipal separate storm sewer owned or operated by the Permittee;			
25 26 27	iii. Control the discharge of spills and the dumping or disposal of materials other than stormwater into the municipal separate storm sewers owned or operated by the Permittee;			
28 29 30 31 32 33	iv. Control the contribution of pollutants from one portion of the municipal separate storm sewer system to another portion of the municipal separate storm sewer system, where there is a physical interconnection between municipal separate storm sewers owned or operated by the municipality, and those of an adjoining municipality or other public entity, including co- Permittees;			
34 35 36 37 38	[This is Ecology's responsibility, not ours. We do not have the authority to do this. If we have problems with another entity, we will approach them, and attempt to work out a solution. However if they do not cease the discharge of pollutants, it is Ecology's legal mandate under 90.48 to take action to stop the discharge.]			
39 40	 ∀<u>iv</u>. Require compliance with conditions in ordinances, permits, contracts, or orders; and, 			
41 42 43 44 45	vi. Within the limitations of state law, carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance and non- compliance with permit conditions, including the prohibition on illicit discharges to the municipal separate storm sewer and compliance with local ordinances.			

1 2 3 4 5		c. Each Permittee shall submit, no later than one year from the effective date of the permit, a statement by its legal counsel that the Permittee has all necessary legal authority to comply with this permit. <a a="" all"="" authority.]<="" href="[This may be difficult to obtain.gince an attorney may not be willing or able to sign a statement that says his/her municipality has " legal="" necessary="">	
6	2.	Gathering, Maintaining, and Using Adequate Information	
7 8 9 10		The SWMP shall include an ongoing program for gathering, maintaining, and using adequate information to conduct planning, priority setting, and program evaluation activities. The information and its form of retention shall include but not be limited to:	
11 12 13		a. No later than 2 years from the effective date each permittee shall map all known municipal separate storm sewer outfalls and receiving waters, and structural stormwater BMPs owned, operated, or maintained by the Permittee.	
14 15 16 17 18		b. No later than 4 years from the effective date of this permit each permittee shall map tributary conveyances, the associated drainage areas, and land use of all municipal separate storm sewer outfalls owned or operated by the permittee, with a 24" inches nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, and indicate type, material, and size where known.	
19 20 21 22		c. No later than 4 years from the effective date of this permit each permittee shall map areas served by the Permittee's MS4 that discharge stormwater to groundwater but are not designed to discharge through facilities regulated under the Underground Injection Control program.	
23		d. Map(s) depicting existing land use	
24		e. Map(s) depicting zoning.	
25 26 27		f. No later than 2 years from the effective date each permittee shall establish, maintain and make available to the public, a data base, including at least the following information. [The following 3 sections need to be more specific.]	
28		i. Precipitation records. [From an official weather station? Details?]	
29		ii. Stormwater quality and quantity records. [What kinds of records?]	
30 31		iii. Water quality and physical characteristics of receiving water that may be impacted by stormwater. [What kinds of information?]	
32 33 34 35 36 37 38		g. Each Permittee shall make available to Ecology, upon request, all available GIS data layers depicting outfall locations, tributary conveyances, structural stormwater BMPs, and, if known, the associated drainage areas of 24" municipal separate storm sewer outfalls owned or operated by the permittee GI. GIS data shall be submitted in the format specified by Ecology at: http://www.ecy.wa.gov/services/gis/data/standards.htm. Notification of updated GIS data layers shall be included in annual reports.	
39 40		h. Upon request, and to the extent appropriate, Permittees shall provide mapping information to Co-Permittees and Secondary Permittees.	
41	3.	Coordination	
42 43 44		[Requiring written formal intergovernmental coordination would require a large amount of staff time that should be more effectively spent achieving other permit requirements. No legal mechanism exists to require this type of	

coordination. Intergovernmental coordination may be encouraged by the permit, but it should not be required. Tacoma already coordinates with the other Phase I municipalities on permit issues and concerns. Tacoma also cooperates with our neighboring municipalities and with the Puyallup Tribe to respond effectively to flooding issues, illicit discharges and spills, capital improvement projects, participate in watershed council meetings and work on other cross boundary issues as needed.]

[Comments on integrated monitoring stand as before, most monitoring of mutual interest should be done by a third party.]

- a. The SWMP shall include coordination mechanisms among Permittees, co-Permittees, and secondary Permittees to encourage coordinated stormwaterrelated policies, programs and projects within a watershed. The SWMP shall also include coordination among departments within each jurisdiction to ensure compliance with the terms of this permit.
 - b. Minimum Performance Measures:
 - No later than 6 months after the effective date of this permit, establish, in writing, and begin implementation of, intragovernmental (internal) coordination procedures to ensure compliance with the terms of this permit.
 - No later than 6 months after the effective date of this permit, establish, in writing, and begin implementation of, intergovernmental coordination procedures on stormwater management, including
 - Coordination mechanisms clarifying roles and responsibilities to ensure the control of pollutants between physically interconnected MS3s.
 - Coordinating stormwater management activities, for shared waterbodies, among Permittees, to avoid conflicting plans, policies and regulations.
 - Coordination necessary to develop an integrated monitoring program.

4. Public Involvement and Participation

- a. The SWMP shall provide ongoing opportunities for public involvement <u>as appropriate</u> in the <u>Permittee's</u> decision making processes involving stormwater management programs and <u>the priorities for appropriate aspects of those programs</u>.
- , through advisory councils, watershed committees, participation in developing rate structures, stewardship programs, environmental activities, or other similar activities.
- b. Minimum performance measures:
 - No later than 6 months after the effective date of this permit, adopt a process to create opportunities for public participation in the decision making processes involving the development, implementation and update

1 2		f the permittees SWMP. Each Permittee must develop and implement a rocess for consideration of public comments on their SWMP.
3 4		o later than 12 months after the effective date of this permit, begin nplementation of the public involvement program.
5 6 7 8 9	re ir O	ach Permittee must make their SWMP, the SWMP documentation equired under S7.A(1) and all submittals required by this permit, acluding annual reports, available to the public on the permitees' website r submitted in electronic format to the Department for posting on the Department's website.
10	5. Controlling	Runoff from New Development, Redevelopment and Construction Sites
11 12 13	from no	WMP shall include a program to prevent and control the impacts of runoff ew development, redevelopment, and construction activities. The m shall apply to private and public development, including roads.
14	b. Minimu	ım performance measures:
15 16 17 18 19 20 21 22 23	(whi rede othe strir taild simi and	Minimum Requirements, thresholds, and definitions in Appendix 1 ch is by this reference as if set forth fully herein), for new development, evelopment, and construction sites must be included in ordinance or er enforceable documents adopted by the local government. More igent requirements may be used, and/or certain requirements may be red to local circumstances through the use of basin plans or other lar water quality and quantity planning efforts. Such local requirements thresholds must provide equal protection of receiving waters and equal is of pollution control as compared to Appendix 1.
24 25	-	ustment and variance criteria equivalent to those in Appendix 1 must be uded.
26 27 28 29 30 31 32 33 34	sele requ disc requ reas disc prot	local requirements must include a site planning process and BMP ction and design criteria that, when used to implement the minimum sirements on a site specific basis, will protect water quality, reduce the harge of pollutants to the maximum extent practical, and satisfy the state sirement under chapter 90.48 RCW to apply all known, available, conable methods of prevention, control and treatment (AKART) prior to harge. Permittees must document how the criteria and requirements will ect water quality, reduce the discharge of pollutants to the maximum ent practical, and satisfy the state AKART requirements.
35 36 37 38	and <u>Was</u>	mittees who choose to use the site planning process, and BMP selection design criteria in the 2005 <u>Stormwater Management Manual for Western Shington,</u> or an equivalent manual approved by the Department, may cite choice as their sole documentation to meet this requirement.
39 40 41 42	redu mea	program must allow non-structural preventive actions and source action approaches such as <i>Low Impact Development</i> Techniques (LID), asures to minimize the creation of impervious surfaces, and measures to mize the disturbance of soils and vegetation.

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- v. Deadlines for and Review of Local Manual and Ordinances. No later than 12 months from the effective date of this permit, each Permittee must adopt a local program that meets the requirements in S7C.5.a.i through iv., above. Ecology review and approval of the local manual and ordinances is required. To ensure compliance with the 12 month deadline, Permittees may use the following review process:
 - (1) The Permittee submits draft enforceable requirements, technical standards and manual to Ecology no later than 8 months after the effective date of this permit. Ecology will review and provide written response to the Permittee.
 - (2) If this review process is followed, the deadline for adoption of enforceable requirements, technical standards and manual shall be automatically extended by the number of calendar days that Ecology exceeds a 60 day period for written response.
- vi. No later than 12 months after the effective date of this permit, the program must establish legal authority, through approval of new development, to inspect private stormwater facilities and enforce maintenance standards.
- vii. No later than 18 months after the effective date of this permit, the program must include a process of permits, plan review, inspections, and enforcement capability to meet the following standards for both private and public projects, using *qualified personnel* (staff or qualified contractors):
 - (1) Review all stormwater site plans for proposed development activities that meet the thresholds in Appendix 1.
 - (2) Inspect prior to clearing and construction, all development sites that are hydraulically near a sediment/erosion-sensitive feature or have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 2, which is by this reference as if set forth fully herein.
 - (3) Inspect all permitted development sites during construction to ensure proper installation and maintenance of required erosion and sediment controls. Enforce as necessary based on the inspection. This inspection may be combined with other inspections provided it is still performed by qualified personnel (staff or contractors).
 - (4) Inspect all development sites upon completion of construction and prior to final approval/occupancy to ensure proper installation of permanent erosion controls and stormwater facilities/BMPs. Enforce as necessary based on the inspection. Also, ensure a maintenance plan is completed and responsibilty for maintenance is assigned. This inspection may be combined with other inspections provided it is still performed by qualified personnel (staff or contractors).
 - (5) Compliance with the inspection requirements of S7.C.5.(b)vii.(2), (3), and (4), above shall be determined by the presence of an established inspection program designed to inspect all sites.
 - (6) Each Permittee shall track and maintain records of all inspections and enforcement actions.

- viii. No later than the effective date of this permit, the Permittee must provide the "Notice of Intent for Construction Activity" and/or copies of the "Notice of Intent for Industrial Activity" to representatives of proposed new development and redevelopment. Permittees will continue to enforce local ordinances controlling runoff from construction sites that also require coverage under the Industrial Stormwater General Permit and/or the Construction Stormwater General Permit.
- ix. Each permittee must provide a dequate training for staff involved in Controlling Stormwater Runoff from New Development, Redevelopment, and Construction Sites, including permitting, plan review, construction site inspections, and enforcement, to carry out the provision of this program component.

6. Structural Stormwater Controls

The program shall include the construction of projects such as regional flow control facilities, water quality treatment facilities, and retrofitting of existing flood control facilities. Permittees should also consider other means to address impacts from existing development, such as reduction of hydrologic changes through the use of on-site (infiltration and dispersion) stormwater management BMPs and site design techniques, habitat acquisition or restoration of forest cover and riparian buffers, for compliance with this requirement. Permittees may not use in-stream culvert replacement projects for compliance with this requirement.

b. Minimum Performance Measures:

- i. No later than 12 months after the effective date of this permit, each Permittee shall develop and begin implementing a Structural Stormwater Control program designed to control stormwater impacts that are not adequately controlled by the other required actions of the SWMP. The program shall include a description of projects and a construction schedule, for projects that are scheduled for implementation during the term of this permit.
- ii. Each Permittee shall include a description of the Structural Stormwater Control Program in the written documentation of their SWMP that must be submitted with the first year annual report. The description of the Structural Stormwater Control Program must include the following:
 - The goals that the Structural Stormwater Control Program are intended to achieve.

discharging into municipal separate storm sewers owned or operated by the Permittee. iii. Application and enforcement of local ordinances at all applicable sites		
expected benefits including reductions in pollutant loading, flow reductions, habitat enhancement or other benefits. provide the following information: The estimated pollutant load reduction that will result from each project designed to provide stormwater treatment. The expected outcome of each project designed to provide flow control. Any other expected environmental benefits. iv. Information about the Structural Stormwater Control Program shall be updated with each annual report. 7. Source Control Program a. The SWMP shall include a program to reduce pollutants in runoff from areas that discharge to municipal separate storm sewers owned or operated by the Permittee. The program shall include: i. Requiring application of operational and structural source control BMPs, and, if necessary, treatment BMPs to pollution generating sources associated with existing land uses and activities. ii. Inspections of pollutant generating sources at commercial, industrial and multifamily properties to ensure implementation of BMPs to control pollution discharging into municipal separate storm sewers owned or operated by the Permittee. iii. Application and enforcement of local ordinances at all applicable sites. Including those with industrial stormwater general NPDES permit evereage. Municipalities may refer stormwater discharge problems associated with violations of local ordinances only after implementing progressive enforcement as required in S7.C.7.b.iv, below. Municipalities may not refer stormwater discharge problems associated with industrial NPDES Permittees that are in compliance with the terms of this permit will not be held liable by Ecology for water quality standard violations caused by industries covered under an NPDES permit issued by Ecology. [Remove the requirement that the Permittee take responsibility for facilities with current industrial stormwater general NPDES permit coverage. It places unnecessary burden on the local Permittee in that	2 3 4 5 6	Control Program, including: the geographic scale of the planning process, the issues and regulations addressed, the steps in the planning process, the types of characterization information considered, the amount budgeted for implementation, and the public
designed to provide stormwater treatment. *The expected outcome of each project designed to provide flow control. *Any other expected environmental benefits. iv. Information about the Structural Stormwater Control Program shall be updated with each annual report. 7. Source Control Program a. The SWMP shall include a program to reduce pollutants in runoff from areas that discharge to municipal separate storm sewers owned or operated by the Permittee. The program shall include: i. Requiring application of operational and structural source control BMPs, and, if necessary, treatment BMPs to pollution generating sources associated with existing land uses and activities. ii. Inspections of pollutant generating sources at commercial, industrial and multifamily properties to ensure implementation of BMPs to control pollution discharging into municipal separate storm sewers owned or operated by the Permittee. iii. Application and enforcement of local ordinances at all applicable sites. Tincluding those with industrial stormwater general NPDES permit coverage. Municipalities may refer stormwater discharge problems associated with violations of local ordinances only after implementing progressive enforcement as required in S7.C.7.b.iv, below. Municipalities may not refer stormwater discharge problems associated with industrial NPDES Permittees to Ecology if the Permittee has local ordinances that impose stricter standards than imposed through the permit issued by Ecology. Permittees that are in compliance with the terms of this permit will not be held liable by Ecology for water quality standard violations caused by industries coverage. It places unnecessary burden on the local Permittee in that	9 10	expected benefits including reductions in pollutant loading, flow reductions, habitat enhancement or other benefits. provide the following
18 updated with each annual report. 19 20 7. Source Control Program 21 a. The SWMP shall include a program to reduce pollutants in runoff from areas that discharge to municipal separate storm sewers owned or operated by the Permittee. The program shall include: 22 i. Requiring application of operational and structural source control BMPs, and, if necessary, treatment BMPs to pollution generating sources associated with existing land uses and activities. 23 ii. Inspections of pollutant generating sources at commercial, industrial and multifamily properties to ensure implementation of BMPs to control pollution discharging into municipal separate storm sewers owned or operated by the Permittee. 24 iii. Application and enforcement of local ordinances at all applicable sites, including those with industrial stormwater general NPDES permit coverage. Municipalities may refer stormwater discharge problems associated with violations of local ordinances only after implementing progressive enforcement as required in S7.C.7.b.iv, below. Municipalities may not refer stormwater discharge problems associated with industrial NPDES Permittees to Ecology if the Permittee has local ordinances that impose stricter standards than imposed through the permit issued by Ecology. 28 Permittees that are in compliance with the terms of this permit will not be held liable by Ecology for water quality standard violations caused by industries covered under an NPDES permit eater esponsibility for facilities with current industrial stormwater general NPDES permit coverage. It places unnecessary burden on the local Permittee in that	13 14 15	designed to provide stormwater treatment. •The expected outcome of each project designed to provide flow control.
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	43 44	facilities with current industrial stormwater general NPDES permit coverage. It places unnecessary burden on the local Permittee in that

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permit has shown it is meeting all water quality discharge limits acceptable to the state. In addition, the NPDES permit holder is likely to have taken extensive steps, requiring significant resources, to comply with the terms and conditions of the permit.]

- iv. Reduction of pollutants associated with the application of pesticides, herbicides, and fertilizer discharging into municipal separate storm sewers owned or operated by the Permittee.
- b. Minimum Performance Measures for Source Control Program:
 - No later than 12 months after the effective date of this permit, adopt and begin enforcement of an ordinance requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities (See Appendix 3, to identify pollutant generating sources). The local source control requirements must include operational and structural source control BMPs that, when used on a site specific basis, will protect water quality, reduce the discharge of pollutants to the maximum extent practical, and satisfy the state requirement under chapter 90.48 RCW to apply all known, available, reasonable methods of prevention, control and treatment (AKART) prior to discharge. Permittees must document the stormwater source control BMP selection process for different urban land uses, the types of BMPs and design criteria for those BMPs, the technical basis and an assessment of how the practices will protect water quality, reduce the discharge of pollutants to the maximum extent practical, and satisfy the state AKART requirements. Permittees may choose to use the source control BMPs in Volume IV of the 2001 Stormwater Management Manual for Western Washington. If the demonstration approach is chosen, the Permittee must submit the proposed source control program and all necessary documentation to Ecology for review, no later than 9 months after the effective date of this permit. If Ecology does not request changes within 30 days, the proposed source control BMPs are considered approved.

Operational source control BMPs shall be required for all pollutant generating sources. Structural source control BMPs shall be required for pollutant generating sources that cause an illicit discharge or other pollution problem, including: causing or contributing to a violation of surface water, ground water, or sediment management standards; nuisance; or threat to public health and safety, because of inadequate stormwater controls. Implementation of source control requirements may be done through education and technical assistance programs, provided that formal enforcement authority is available to the Permittee and is used as necessary.

No later than 12 months after the effective date of this permit, compile a list of existing commercial, multifamily, industrial and government sites which are potentially pollution generating (see Appendix 3 for identifying sites). The list shall be updated no later than 180 days prior to the expiration date of this permit.

1 2 3 4 5 6 7 8 9 10	iii.	Starting no later than 24 months after the effective date of this permit, conduct an inspection program for all the listed sites, with adequate enforcement capability to ensure implementation of source control BMPs in accordance with the ordinance required in S7.C.8.b.i., above. 60% of the total of the listed properties must be inspected within 5 years of the effective date of the permit, provided that a portion of the inspections must be conducted during each subsequent year of the permit term. The inspection program shall be designed to inspect all sites, to the extent allowable under state law, once every 8 years. Adjust the inspection program as needed to incorporate new sites added to the list and reflect sites already inspected.
12 13 14 15	iv.	No later than 24 months after the effective date of this permit, each Permittee shall implement a progressive enforcement policy to ensure that facilities are brought into compliance with stormwater requirements within a reasonable time period as specified below:
16 17 18 19 20		(1) In the event that a Permittee determines, based on an inspection conducted above, that a site has failed to adequately implement all necessary BMPs, that Permittee shall take progressive enforcement action which, at a minimum, shall include a follow up inspection within 4 weeks from the date of the initial inspection.
21 22 23 24		(2) When a Permittee determines that a facility has failed to adequately implement BMPs after a follow-up inspection, that Permittee shall take further enforcement action as established through authority in its municipal code and ordinances, or through the judicial system.
25 26 27 28 29 30		(3) Each Permittee shall maintain records, including documentation of each site visit, inspection reports, warning letters, notices of violations, and other enforcement records, demonstrating a good faith effort to bring facilities into compliance. Each permittee shall also maintain records of sites that are not inspected because the property owner denies entry.
31 32 33 34		(4) A Permittee may refer violations of local ordinances to Ecology provided that the Permittee has made a good faith effort of progressive enforcement. At a minimum a Permittee's good faith effort must include documentation of:
35		Two follow-up inspections, and
36		Two warning letters or notices of violation
37 38 39 40 41	V.	No later than 12 months after the effective date of this permit, adopt and implement policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, fungicides, and fertilizer on all public property owned or managed by the Permittee, including parks and road right-of-ways. The program shall include the following, at a minimum:
42 43 44		[Ecology does not have the authority to require these actions, with perhaps the exception of tracking fertilizers. Pesticides, herbicides, and fungicides are all regulated by the Department of

1 2 3 4 5 6	Agriculture (WDOA) or EPA (via labeling). We ensure that contractors and personnel are properly certified by WDOA, and that no involvement from Ecology is necessary for terrestrial applications. Municipal applications pale in comparison to private applications, and requirement for education via a number of partners is sufficient.
7 8 9 10 11 12 13 14	Eliminate this section. All that is needed is a statement such as the following:] No later than 12 months after the effective date of this permit, Permittees or their contractors shall apply terrestrial pesticides, herbicides and rodenticides in a manner consistent with labeling and FIFRA regulations, and applicators shall have all applicable licenses required by the Washington State Department of Agriculture. In the event of aquatic pesticide usage, additional permits will be obtained from the Department of Ecology or the Department of Agriculture, as appropriate.
16 17	(1)Identify and quantify all pesticides, herbicides, fungicides, and fertilizer used by the Permittee;
18 19	(2)Identify application practices of each listed product: location, timing, application rates;
20 21 22	(3)Ensure no application of pesticides, herbicides, fungicides, or fertilizers immediately before, during or after a rain event, or when water is flowing off the area to be applied;
23 24	(4)Ensure that staff applying pesticides or herbicides are certified by the Washington State Department of Agriculture;
25 26 27	(5)(1) Implement procedures to use and manage herbicides, pesticides, fungicides, and fertilizer consistent with the adopted source control BMPs.
28 29 30 31 32 33	vi. Provide a minimum of two training sessions regarding the source control ordinance, inspection procedures and source control BMPs, for inspection and other appropriate field staff, to facilitate adequate implementation of the source control program. The first training shall be conducted no later than 24 months after the effective date of this permit. The second training shall be conducted no later than 48 months after the effective date of this permit.
34 35	8. Illicit Connections and Illicit Discharges Detection and Elimination
36 37 38 39	a. The SWMP shall include an ongoing program to detect, remove and prevent illicit connections and illicit discharges, including spills, into the municipal separate storm sewers owned or operated by the Permittee. The program shall include:
40 41 42 43	i. Effectively prohibiting all types of illicit discharges to the municipal separate storm sewers owned or operated by the Permittee other than those authorized under a separate NPDES permit. The categories of non- stormwater discharges listed in Appendix 4 must be addressed only if

1 2		identified as a contributor of pollution to the MS3s owned or operated by the Permittee. As necessary, the Permittee(s) shall incorporate appropriate
3 4 5		control measures in the stormwater management program to ensure the non-stormwater discharges listed in Appendix 4 are not sources of pollutants to waters of the state.
6 7	ii.	Detecting and eliminating illicit connections to municipal separate storm sewers owned or operated by the Permittee.
8 9	iii.	On-going identification of illicit discharges into the municipal separate storm sewer system, through inspections, monitoring and complaint response.
10 11	iv.	Preventing, responding to, and cleaning up illicit discharges into the municipal separate storm sewers owned or operated by the Permittee.
12	b. Mir	nimum Performance Measures:
13 14 15 16	i.	No later than the effective date of this permit, each Permittee must continue implementing an on-going program to prevent, identify and respond to illicit connections and illicit discharges. The program shall include adopting procedures for reporting and correcting or removing illicit connections, spills
17 18 19		and other illicit discharges when they are suspected or identified. The program shall also include procedures for controlling pollutants entering the MS4 from an interconnected, adjoining MS4. Illicit connections and illicit
20 21 22		discharges shall be identified through field screening, inspections, complaints/reports, construction inspections, maintenance inspections, source control inspections, and/or monitoring information, as appropriate.
23 24 25 26 27 28	ii.	Each Permittee shall provide appropriate training for municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting illicit discharges, including spills, improper disposal and illicit connections. Training shall be completed no later than12 months after the effective date of this permit. Refresher training shall be conducted on an annual basis thereafter.
29 30 31 32 33 34 35	iii.	All municipal field staff, which as part of their normal job responsibilities might come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer system shall be trained on the identification of an illicit discharge/connection and on the proper procedures for reporting the illicit discharge/connection. Initial training shall be completed no later than two years from the effective date of this permit. Permittees shall conduct refresher training on an annual basis thereafter.
36 37 38 39	iv.	Each Permittee shall initiate a program to develop and maintain a map of all connections to the municipal separate storm sewer authorized or allowed by the permittee. Each Permittee shall map connections to the municipal separate storm sewer according to the following schedule:
40		City of Seattle and City of Tacoma: second year annual report
41 42 43		Snohomish, King, Pierce and Clark Counties: one half the area of the County within urban growth boundaries and urbanized areas in the 4 th year annual report
14 15	٧.	Each Permittee shall continue to provide a publicly listed water quality citizen complaints/reports telephone number. This program shall be in

1 2		•	no later than the effective date of this permit. Complaints shall be nded to in accordance with S7.C.8.b.vii. and ix., below.
3 4 5	vi.	includi	Permittee shall conduct on-going screening for illicit connections, ing indicator monitoring, and tracking discharges to the source. The ttee shall conduct an ongoing program to identify illicit connections.
6 7 8 9		(1)	City of Seattle and City of Tacoma shall schedule the screening for illicit discharges such that all of the City's municipal separate storm sewers are screened at least once during the term of this permit or provide documentation of an equivalent program to identify and track discharges to the source.
11 12 13 14 15		(2)	Snohomish, King, Pierce and Clark Counties shall schedule the screening program such that all the municipal separate storm sewers located in one half the area of the County within urban growth boundaries and urbanized areas are screened during the term of this permit.
16 17	vii.		ning for illicit discharges shall be conducted using one or more of the ds listed below:
18		(1)	The field screening method in 40 CFR 122.26(d)(1)(iv).
19 20 21		(2)	Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, October 2004.
22		(3)	Other alternative methods that have been approved by Ecology.
22 23 24 25 26 27 28 29	be as effective in successful in find business inspect from volunteer salines and source cost effectiveness	ening for identify ling and ions, ca impling tracing.	Other alternative methods that have been approved by Ecology. It illicit connections is not used in Tacoma and is believed to not ring illicit connections as Tacoma's current program. Tacoma is diremoving illicit discharges through complaints, sanitary/storm alls from maintenance crews, calls from solid waste crews, calls crews and public groups, identification during TVing storm. Tacoma's existing illicit discharge detection program provides acreased efficiencies (staff and public education and awareness) in every outfall in Tacoma.]
23 24 25 26 27 28 29	be as effective in successful in find business inspect from volunteer salines and source cost effectiveness	ening for identify ling and ions, ca impling tracing, s and in d scree	or illicit connections is not used in Tacoma and is believed to not ring illicit connections as Tacoma's current program. Tacoma is defending illicit discharges through complaints, sanitary/storm ills from maintenance crews, calls from solid waste crews, calls crews and public groups, identification during TVing storm. Tacoma's existing illicit discharge detection program provides increased efficiencies (staff and public education and awareness)
23 24 25 26 27 28 29	be as effective in successful in find business inspect from volunteer sa lines and source cost effectiveness then a FTE to field	ening for identify ling and ions, ca impling tracing, s and in d scree	or illicit connections is not used in Tacoma and is believed to not ring illicit connections as Tacoma's current program. Tacoma is different removing illicit discharges through complaints, sanitary/storm removing illicit discharges through complaints, sanitary/storm removing illicit discharge from solid waste crews, calls crews and public groups, identification during TVing storm recoma's existing illicit discharge detection program provides receased efficiencies (staff and public education and awareness) revery outfall in Tacoma.]
23 24 25 26 27 28 29 30 31 32 33 34 35	be as effective in successful in find business inspect from volunteer sa lines and source cost effectiveness then a FTE to field	ening for identify ling and ions, ca impling tracing, s and in d scree	r illicit connections is not used in Tacoma and is believed to not ring illicit connections as Tacoma's current program. Tacoma is defined removing illicit discharges through complaints, sanitary/storm ills from maintenance crews, calls from solid waste crews, calls crews and public groups, identification during TVing storm. Tacoma's existing illicit discharge detection program provides acreased efficiencies (staff and public education and awareness) in every outfall in Tacoma.] Investigation: Upon discovery or upon receiving a report of a suspected illicit connection, Permittees shall initiate an investigation within 21 days, to determine the source of the connection, the nature and volume of discharge through the connection, and the
223 224 225 226 227 228 229 330 331 332 333 334 335 336	be as effective in successful in find business inspect from volunteer sa lines and source cost effectiveness then a FTE to field	ening for identify ling and instructions, can impling sand in discreed Respo (1) (2) Each I permit clean owned Permit	r illicit connections is not used in Tacoma and is believed to not ring illicit connections as Tacoma's current program. Tacoma is defending illicit discharges through complaints, sanitary/storm ills from maintenance crews, calls from solid waste crews, calls crews and public groups, identification during TVing storm. Tacoma's existing illicit discharge detection program provides creased efficiencies (staff and public education and awareness) in every outfall in Tacoma.] Inse to Illicit Connections Investigation: Upon discovery or upon receiving a report of a suspected illicit connection, Permittees shall initiate an investigation within 21 days, to determine the source of the connection, the nature and volume of discharge through the connection, and the responsible party for the connection. Termination: Upon confirmation of the illicit nature of a storm drain connection, Permittees shall ensure termination of the connection

1 2 3	discharge, including a spill or illegal dumping. Permittees shall also investigate as soon as possible, within 24 hours, those problems/violations judged to be urgent or severe, or reported as emergencies.
4 5 6	 Each Permittee shall track and maintain records of the illicit discharge detection and elimination program, including documentation of inspections, complaint/spill response and other enforcement records.
7 8	O Operation and Maintanance Program
9	Operation and Maintenance Program Separate the private energian and maintenance activities from the public
10 11 12 13	Separate the private operation and maintenance activities from the public ones. Suggest moving the private O&M to the source control section. The municipalities are not responsible for the private O&M activities, but are responsible for inspecting them and making sure they don't cause pollution, which is a source control activity.
14 15 16 17	We also suggest that you recognize that Road Maintenance is being done via the Regional Roads Maintenance Plan worked by the Tri-County ESA partnership (with Ecology at the table) and approved by the National Oceanic and Atmospheric Adminitation (NOAA) Fisheries.
18 19	 a. The SWMP shall include a program to conduct maintenance activities that prevent or reduce stormwater impacts. The program shall include:
20 21	 Maintenance standards and programs to ensure proper and timely maintenance of public and private stormwater facilities.
22 23	 ii. Practices for operating and maintaining public streets, roads, and highways to reduce stormwater impacts. [Identify the Tri-County program]
24 25 26 27	iii. Policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, and fertilizer by the Permittee's agencies or departments. [This is not within Ecology's authority, it is regulated by the State Dept. of Agriculture.]
28 29	iv. Practices for reducing stormwater impacts from heavy equipment maintenance or storage yards, and from material storage facilities.
30	b. Minimum Performance Measures:
31 32 33 34 35	i. Maintenance Standards. No later than 12 months after the effective date of this permit, each Permittee must establish maintenance standards that are as protective or more protective of facility function than those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington.
36 37 38 39 40 41 42 43 44 45	The facility-specific maintenance standards are intended to be conditions for determining if maintenance actions are required as identified through inspection. They are not intended to be measures of the facility's required condition at all times between inspections. Exceeding these conditions at any time between inspections and/or maintenance does not automatically constitute a violation of these standards. However, based upon inspection observations, the inspection and maintenance schedules shall be adjusted to minimize the length of time that a facility is in a condition that requires a maintenance action. These standards are violated when an inspection identifies a required maintenance action related to facility function, and that
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action is not performed in a timely manner, for example, within 90 days for typical maintenance, within 6 months for revegetation, and within 1 year for maintenance that requires capital construction of less than \$25,000.

[Are these examples, or requirements. Very specific for examples. Delete this section, and leave to ordinances you are requiring in other parts of this permit, which will vary by permittee and their governmental system].

- ii. Maintenance of stormwater facilities regulated by the Permittee
 - (1) No later than 6 months after the effective date of this permit, each Permittee shall update_evaluate_existing ordinances or other enforceable documents requiring maintenance of all permanent stormwater treatment and flow control facilities regulated by the Permittee, in accordance with maintenance standards established under \$7.C.9.b.i, above.

[Lengthen the time frame. If we do need to make changes, it will take much longer than 6 months. If our ordinance doesn't need updating, then this wording puts us in violation of this section].

- (2) No later than 12 months after the effective date of this permit, each Permittee shall develop and implement an initial inspection schedule for all stormwater treatment and flow control facilities regulated by the Permittee that ensures inspection of each facility at least once during the term of this permit to enforce compliance with adopted maintenance standards as needed based on the inspection.
- (3) No later than 48 months after the effective date of this permit, each Permittee shall develop an on-going inspection schedule for implementation after the initial schedule to ensure annual inspections of all stormwater treatment and flow control facilities regulated by the Permittee. The annual inspection schedule may be changed to a lesser or greater frequency of inspection, as appropriate to ensure compliance with maintenance standards, based on maintenance records of double the length of time of the proposed inspection frequency.
- (4) No later than 24 months after the effective date of this permit each Permittee shall manage maintenance activities to inspect all new permanent stormwater treatment and flow control facilities in new residential developments every 6 months during the period of heaviest house construction (i.e., 1 to 2 years following subdivision approval) to identify maintenance needs and enforce compliance with maintenance standards as needed.
- (5) Compliance with the inspection requirements of S7.C.9.b.ii.(2),(3), and (4), above, shall be determined by the presence of an established inspection program designed to inspect all sites.
- iii. Maintenance of stormwater facilities owned or operated by the Permittee
 - (1) No later than 24 months after the effective date of this permit each Permittee shall begin implementing a program to inspect all stormwater treatment and flow control facilities annually and take

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appropriate maintenance action in accordance with adopted maintenance standards. The annual inspection schedule may be changed to a lesser or greater frequency of inspection as appropriate to ensure compliance with maintenance standards based on maintenance records of double the length of time of the proposed inspection frequency.

(2) No later than 24 months after the effective date of this program each Permittee shall begin implementing a program to conduct spot checks of potentially damaged treatment and flow control facilities after major storm events. If spot checks indicate widespread damage/maintenance needs, inspect all stormwater treatment and flow control facilities that may be affected. Conduct repairs or take appropriate maintenance action in accordance with maintenance standards established under S7.C.9.b.i, above, based on the results of the inspections.

What constitutes a major storm event? This needs to be defined. Our experience is that if there is some type of damage that alters flow, people will call in and report it, or, our maintenance personnel already know about structures that are particularly vulnerable, and will check them. We would emphasize that we know our systems well, and know how to take care of them. We have developed an emergency response plan for major storm events and have an annual training session in the fall. This plan outlines all of the problem sites and they are checked throughout the storm event.

Prescriptiveness at this level is not necessary.

(3) Compliance with the inspection requirements of S7.C.9.b.iii.(1) and (2), above, shall be determined by the presence of an established inspection program designed to inspect all sites.

iv. Catch Basin Maintenance

(1) No later than 24 months after the effective date of this permit each Permittee shall begin implementing a program to annually inspect catchbasins and inlets owned or operated by the Permittee. <u>The</u> annual inspection schedule may be changed to a lesser or greater frequency of inspection, as appropriate to ensure compliance with maintenance standards, based on the Permittees knowledge and historic performance of their system.

Inspections may be conducted on a "circuit basis" whereby a sampling of catchbasins and inlets within each circuit is inspected to identify maintenance needs. Include in the sampling an inspection of the catchbasin immediately upstream of any system outfall. Clean all catchbasins within a given circuit at one time if the inspection sampling indicates cleaning is needed to comply with maintenance standards established under S7.C.9.b.i, above. As an alternative to inspecting catchbasins on a "circuit basis," the Permittee may inspect all catchbasins, and clean only catchbasins where cleaning is needed to comply with maintenance standards. The disposal of

1 2			decant water shall be in accordance with the requirements in Appendix 7, which is by this reference as if set forth fully herein.
3 4 5		(2)	The Permittee shall require cleaning of private catchbasins and inlets whenever they are found to be out of compliance with adopted maintenance standards.
6 7	V.		ds of inspections and maintenance or repair activities conducted by ermittee shall be maintained.
8 9 10	vi.	from p	ish practices to reduce stormwater impacts associated with runoff public parking lots, public streets, public roads, highways, and road enance activities within 12 months of the effective date of this permit.
11 12 13 14 15 16		maint entitie the Tri Ecolog practic	his section, and the catchbasin section(any of the roads enance portions), the following should be added:] For those is adopting the Regional Road Maintenance Practices, developed by in-County ESA partnership and in cooperation with the Department of any, and approved by NOAA Fisheries, implementation of those items shall be deemed full compliance with the road maintenance items portion of this permit
18 19 20 21		effecti	mentation of practices shall begin no later than 18 months after the ve date of this permit, and continue on an ongoing basis throughout rm of the permit. The following activities must be addressed:
22		(1)	Pipe cleaning
23		(2)	Cleaning of culverts that convey stormwater in ditch systems
24		(3)	Ditch maintenance
25		(4)	Street cleaning
26		(5)	Road repair and resurfacing, including pavement grinding
27		(6)	Snow and ice control
28		(7)	Utility installation
29		(8)	Maintaining roadside areas, including vegetation management.
30		(9)	Dust control
31		(10)	Pavement striping maintenance
32 33 34 35 36 37 38	vii.	Permit polluta Permit ways,	er than 12 months after the effective date of this permit each tree shall establish and implement policies and procedures to reduce ants in discharges from all lands owned or maintained by the tree, including but not limited to: parks, open space, road right-of-maintenance yards, and at stormwater treatment and flow control es. These policies and procedures must address, but are not limited
39			of these items are in the Manual in the Source Control and BMP
40			ons. Why is it being made a separate requirement here? Delete
41		tnis s	ection entirely, and say will follow Manual.]

1 there are numerous sites both private and public that requires 2 Source Control BMPs. 3 Although an advisable document to have, there is no nexus to 4 retroactively force all development sites to provide SWPPP. These 5 sites are only required to provide them when submitting for development permits. Why should municipal sites operating under 6 7 approved permits be forced retroactively to create a SWPPP? If we 8 are not in compliance with source control BMPs per the Manual, we 9 are still subject to the same inspection and enforcement criteria 10 private developments are per the Manual and the Surface Water 11 Management Program. 12 This particular requirement appears to be a paper exercise with little 13 value, as most of the documentation required under the SWPPP. 14 Operation and Maintenance manuals, Spill Control Plans and 15 employee education regarding our surface water facilities are a 16 much better use of our time. 17 Tacoma Water has no problem with providing SWPPPs when we 18 submit for permits for these sites at the time of redevelopment. We also don't object to working with Source Control inspectors to 19 20 determine areas to improve our business practices. 21 However, Tacoma Water strongly objects to the statement "A 22 schedule for implementation of structural BMPs shall be included in 23 the SWPPP." There is no nexus to require implementation of 24 structural BMPs for sites that are not under a development permit 25 action or some sort of compliance action. Tacoma Water's schedule for implementation of structural BMPs will coincide with any future 26 development plans regarding our heavy equipment maintenance or 27 28 storage yards, and material storage facilities. 29 30 10. Education and Outreach Program 31 a. The SWMP shall include an education and outreach program aimed at 32 residents, businesses, industries, elected officials, policy makers, planning staff and other employees of the Permittee. The goal of the education program is to 33 34 reduce or eliminate behaviors and practices that cause or contribute to adverse 35 stormwater impacts. An education and outreach program may be developed 36 locally or regionally. 37 b. Minimum Performance Measures: 38 No later than 12 months after the effective date of this permit the each 39 Permittee shall implement or participate in an education and outreach 40 program that uses different types of media (brochures alone are not 41 adequate), and targets a wide range of interest groups to meet the 42 education objectives provide education on the topics listed in iii, below.

1 2 3		objec	education and outreach program shall meet all of the following tives by the expiration date of this permit: address the following topics arget audiences:
4 5 6 7 8 9		(1)	Provide education opportunities for all audiences about the importance of improving water quality, reducing impervious surfaces and protecting the existing and designated beneficial uses of waters of the state, about potential impacts caused by stormwater discharges, and methods for avoiding, minimizing, reducing and/or eliminating the adverse impacts of stormwater runoff.
10 11			Provide and encourage <u>public</u> participation in environmental stewardship activities.
12 13 14 15 16			Provide information to the general public about actions individuals can take to improve water quality and reduce impervious surfaces (e.g., lawn care with less fertilizer and pesticides, more use of native vegetation for landscaping, proper disposal of pet wastes, etc.) and reduce the runoff effects of impervious surfaces (e.g., use of permeable pavement, create less impervious surfaces, etc.)).
18 19 20		(4)	Provide information to the general public on proper use and disposal of pesticides, herbicides, and fertilizers. [This is not our responsibility.]
21 22 23 24 25			Provide information to engineers, construction contractors, developers, development review staff, and land use planners on technical standards, the development of stormwater site plans and erosion control plans, and BMPs for mitigating contaminated runoff and the quantity of runoff from development sites.
26 27 28 29		(6)	Provide information to engineers, contractors, developers, and the public on land development practices and non-structural BMPs, such as Low Impact Development, that eliminate, avoid, or minimize adverse stormwater impacts.
30 31 32		(7)	Provide information to the general public that explains illicit discharges and their impacts, and promotes their removal. to explain the definition and impacts, and promote removal of illicit discharges.
33 34 35		. ,	Provide information to the general public that to-promotespromete proper management and disposal of toxic materials (e.g. used oil, batteries, vehicle fluids, home chemicals.)
36 37 38 39 40		` ,	Provide information to <u>businesses</u> and homeowners that promotes implementation of source control BMPs to reduce the discharge of pollutants form businesses and residential activities. commercial target audiences in coordination with the source control inspection program.
41 42 43 44	iii.	out i ider	h Permittee shall develop and implement a public education and reach program designed to reach 100% of the target audiences ntified in S7.c.10.b.ii., above, within their jurisdiction, by the expiration of this permit.
45 46	i∨ <u>iii</u> .		ach permittee shall track and maintain records of public education and reach activities.

S8. STORMWATER MANAGEMENT PROGRAM FOR CO-PERMITTEES AND SECONDARY PERMITTEES

[Delete the entire secondary permittees section].

4 A.

Each Co-Permittee and Secondary Permittee shall implement a stormwater management program (SWMP) during the term of this permit. For the purpose of this permit a SWMP for a Co-Permittee or Secondary Permittee is a set of actions and activities comprising the components in this Special Condition as outlined below. The SWMP shall also include any additional controls identified in Appendix 6 of this permit which are necessary to meet applicable TMDL requirements.

- 1. S8.B Coordination, and S8.C Legal Authority are applicable to all Co-Permittees and Secondary Permittees covered under this permit.
- 2. S8.D is applicable only to Port Districts Covered under this Permit.
- 3. S8.E is applicable only to King County as a Co-Permittee with the City of Seattle for MS4s owned by King County but located within the City of Seattle.
- 4. S8.F is applicable all other Secondary Permittees excluding Port Districts.

B. Coordination

The SWMP for all Co-Permittees and Secondary Permittees shall include mechanisms among Permittees, Co-Permittees, and Secondary Permittees to encourage coordinated stormwater-related policies, programs and projects within a watershed and interconnected municipal separate storm sewers. Where relevant and appropriate, the SWMP shall also include coordination among departments within each jurisdiction to ensure compliance with the terms of this permit.

No later than 6 months after receiving coverage under this permit the SWMP shall provide for appropriate coordination with the City and County in which the Secondary Permittee or Co-Permittee is located.

C. Legal Authority

To the extent allowable under state law, all Co-Permittees and Secondary Permittees shall operate pursuant to adequate legal authority which authorizes or enables the Secondary Permittee and Co-permittee to control discharges to and from municipal separate storm sewers owned or operated by the Secondary Permittee.

This legal authority, which may be a combination of statute, ordinance, permit, contracts, orders, interagency agreements, or similar means, shall include the ability to:

 Control the contribution of pollutants to municipal separate storm sewers owned or operated by the Co-Permittee or Secondary Permittee from stormwater discharges associated with industrial activity, and control the quality of stormwater discharged from sites of industrial activity, and control the quality of stormwater discharged from sites of industrial activity into the Permittees municipal separate storm sewer

1 2. Prohibit illicit discharges to the municipal separate storm sewer owned or operated 2 by the Co-Permittee or Secondary Permittee; 3 3. Control the discharge of spills and the dumping or disposal of materials other than 4 stormwater into the municipal separate storm sewers owned or operated by the 5 Co-Permittee or Secondary Permittee; 6 4. Control the contribution of pollutants from one portion of the municipal separate 7 storm sewer system to another portion of the municipal separate storm sewer 8 system: 9 5. Require compliance with conditions in ordinances, permits, contracts, or orders; 10 and, 11 6. Carry out inspection, surveillance, and monitoring procedures necessary to 12 determine compliance and non-compliance with permit conditions, including the prohibition on illicit discharges to the municipal separate storm sewer. 13 14 D. Stormwater Management Program for Port Districts: 1. Gathering, Maintaining, and Using Adequate Information. The SWMP shall include 15 an ongoing program for gathering, maintaining, and using adequate information to 16 17 conduct planning, priority setting, and program evaluation activities for Port-owned 18 properties. 19 Minimum Performance Measures. The following information will be gathered and 20 retained: 21 a. Mapping of known municipal separate storm sewer outfalls, and maps 22 depicting land use for property owned by the Port district, and all other 23 properties served by municipal separate storm sewers owned or operated by the Port. The mapping shall be completed within 18 months of receiving 24 25 coverage under this permit. 26 27 28

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- b. Mapping of tributary conveyances, and the associated drainage areas of major municipal separate storm sewer outfalls, will be completed within 2 years of the effective date of this permit.
- c. Each Port shall make available to Ecology, upon request, GIS data layers depicting outfall locations, land use, tributary conveyances and associated drainage areas of major outfalls. GIS data shall be submitted in the format specified by Ecology at: http://www.ecy.wa.gov/services/gis/data/standards.htm.
- c. No later than 18 months after receiving coverage under this permit, develop and implement a program to maintain operation and maintenance records for stormwater management facilities, indicating the date, what actions were taken and where wastes were disposed of. The information shall be available for inspection.
- d. Upon Request, mapping information and operation and maintenance records shall be provided to the City or County in which the Port is located.
- 2. Source Control in existing Developed Areas. The SWMP shall include a program to address impacts caused by stormwater discharges from areas of existing development through the development and implementation of Stormwater Pollution Prevention Plans (SWPPPs). SWPPPS shall be prepared and implemented for all

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Port-owned lands with potential pollutant-generating sources (see Appendix 3, for definition of pollutant-generating sources) that are not covered under the Industrial Stormwater General Permit, the Boatyard General Permit or an individual NPDES permit that covers stormwater discharges, and that could contribute pollutants to municipal separate storm sewers owned or operated by the Port.

Minimum Performance Measures

- a. SWPPs must be developed for applicable properties within 18 months of receiving coverage under this permit. The SWPPP is a documented plan to implement measures to identify, prevent, and control the contamination of discharges of stormwater to surface or ground water.
- b. The SWPPP shall include a facility assessment including a site plan, identification of pollutant sources and description of the drainage system.
- c. The SWPPP shall include a description of the BMPs necessary for the site to eliminate or reduce stormwater contamination and, if necessary, regulate peak flow and volume of stormwater discharge. Implementation of non-structural BMPs shall begin immediately after the pollution prevention plan is developed. A schedule for implementation of structural BMPs shall be included in the SWPPP. Generic SWPPPs that can be applied at multiple sites may be used to comply with this requirement.
- d. The Port shall maintain a list of sites for which SWPPPs are required under this permit. At least 15% of the listed sites shall be inspected annually, and 80% of the total number of listed properties will be inspected during the term of the permit.
- e. The SWPPPs shall include policies and procedures to reduce pollutants associated with the application of pesticides, herbicides and fertilizer.
- f. The SWPPs shall include measures to prevent, identify and respond to illicit discharges, including illicit connections, spills and improper disposal. Immediately upon becoming aware of a spill into the drainage system owned or operated by the Port, the Port shall notify the City or County it is located in, and notify Ecology.
- g. The SWPPPs shall include a component related to inspection and maintenance of stormwater treatment and flow control facilities, and catchbasins, that is consistent with the Port's Operation and Maintenance Program, as specified in 3., below. The SWPPP will address appropriate training for maintenance staff. Records of inspections and maintenance activities shall be maintained.
- 3. Operation and Maintenance Program. The SWMP shall include an operation and maintenance program for all stormwater treatment and flow control facilities, and catchbasins to ensure that BMPs continue to function properly.

Minimum Performance Measures:

a. Each Port must prepare an operation and maintenance manual for all stormwater treatment and flow control BMPs that are owned or maintained by the Port. The deadline for preparing the maintenance manual is 18 months after receiving coverage under this permit. A copy of the manual shall be retained in the appropriate Port department. The operation and maintenance manual shall establish facility-specific maintenance standards that are as

protective, or more protective than those specified in Chapter 4 of Volume V of the 2001 Stormwater Management Manual for Western Washington.

The facility-specific maintenance standards are intended to be conditions for determining if maintenance actions are required as identified through inspection. They are not a measure of the facilities required condition at all times between inspections. Exceeding the maintenance standards between inspections and/or maintenance does not automatically constitute a violation of these standards. However, based upon inspection observations, the inspection and maintenance schedules shall be adjusted to minimize the length of time that a facility is in a condition that requires a maintenance action. These standards are violated when an inspection identifies a required maintenance action, and that action is not performed within 90 days for typical maintenance, within 6 months for re-vegetation, and within 1 year for maintenance that requires capital construction.

- b. Each Port will manage maintenance activities to inspect all stormwater treatment and flow control BMPs annually and take appropriate maintenance action in accordance with the operation and maintenance manual. The annual inspection schedule may be changed to a lesser or greater frequency of inspection as appropriate to ensure compliance with maintenance standards based on maintenance records of double the length of time of the proposed inspection frequency.
- c. The Port shall provide appropriate training for Port maintenance staff.
- Education Program. The SWMP shall include an education program aimed at tenants and Port employees. The goal of the education program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.

Minimum Performance Measure:

- a. No later than 18 months after receiving coverage under this permit, all tenant and Port employees whose job duties could negatively impact stormwater will receive educational materials.
- 5. Monitoring Program. The monitoring requirements for the Port of Seattle and Port of Tacoma are included in Special Condition S6.
- E. Stormwater Management Program for King County as a Co-Permittee
 - King County as a Co-Permittee with the City of Seattle for the Densmore Metro Drainage Basin, as defined in the Memorandum of Agreement between the City and King County dated September 25, 1995, shall participate in the City of Seattle's Stormwater Management Program in accordance with the Joint Stormwater Management Program element of the Memorandum of Agreement. The Joint Stormwater Management Program shall at a minimum include the following:
 - 1. Stormwater controls for areas of existing development consistent with S7.C.6.
 - 2. A source control program consistent with S7.C.7.
 - 3. An illicit discharge reduction program consistent with S7.C.8.
- 4. An operation and maintenance program consistent with S7.C.9.

5. A public education program consistent with S7.C.10.

F. Stormwater Management Program for Secondary Permittees

All other Secondary Permittees shall develop and implement the following Stormwater Management Program. The term "all other Secondary Permittees" means drainage, diking, flood control, or diking and drainage districts, and any other owners or operators of municipal separate storm sewers located within the municipalities that are listed as Permittees in special condition S1.B.

The SWMP shall be designed to reduce the discharge of pollutants from regulated small MS4s to the maximum extent practicable and protect water quality. A SWMP is a set of actions and activities comprising the components listed in S8.F.1 through S8.F.6, below. Unless an alternate deadline is provided below, all components of the SWMP shall be fully developed and implemented within 5 years of receiving coverage under this permit.

1. Public Education and Outreach

 Secondary Permittees must develop and implement a public education and outreach program. The program shall distribute educational materials or conduct equivalent outreach activities to educate the public, businesses and other entities in the area served by the Secondary Permittees MS4.

The minimum performance measures are:

- a. Each Secondary Permittee shall identify at least one target audience served by the Secondary Permittees MS4 for stormwater education and will provide appropriate information to that audience about proper stormwater management to prevent water quality impacts.
- b. The target audience(s) must be identified within one year from the date of permit coverage; an outreach strategy designed to reach 100% of the identified target audience must be developed and implemented within four years from the date of permit coverage. This requirement may be met by participating in the education program of the permitted jurisdiction that the secondary permittee is located within.

2. Public Involvement

At a minimum, Secondary Permittees must comply with applicable State, tribal and local public notice requirements when implementing a public involvement and participation program. The SWMP shall include ongoing opportunities for public involvement and participation through advisory panels, public hearings, watershed committees, participation in developing rate-structures, stewardship programs, environmental activities, volunteer opportunities, or other similar activities.

3. Illicit Discharge Detection and Elimination

The SWMP shall include measures to prevent, identify and respond to illicit discharges, including illicit connections, spills, and improper disposals, which shall include appropriate inspections and reports, and appropriate training and procedures to be used by field staff to recognize, report, and respond to, illicit discharges.

1 The minimum performance measures are: 2 a. From the date of permit coverage, comply with all relevant ordinances, rules, and 3 regulations of the local jurisdiction(s) in which the Secondary Permittee is located 4 that govern discharges into the local jurisdictions municipal separate storm sewer 5 system. 6 b. Develop and enforce appropriate policies prohibiting illicit discharges and illegal 7 dumping. Identify possible enforcement mechanisms within one year from the 8 date of permit coverage; and, within eighteen months from the date of permit 9 coverage, develop and implement an enforcement plan using these mechanisms 10 to ensure compliance with illicit discharge policies adopted by the Secondary Permittee. 11 12 c. Develop a map of the municipal separate storm sewer system owned or operated 13 by the Secondary Permittee within 2 years from the date of permit coverage. The map shall include all known storm drain outfalls to waters of the state and 14 the name of the receiving water body or discharge points into adjacent MS4s. 15 The map shall also include all known tributary conveyances, and their associated 16 drainage areas, for all areas served by the MS4 owned or operated by the 17 18 Secondary Permittee. 19 The storm sewer map shall be provided to the City or County in which the 20 Secondary Permittee is located, upon the request of those entities. In 21 accordance with S7.C.2, Secondary Permittees may request mapping 22 information from other entities covered under this permit. 23 d. By the end of the permit term, develop and implement a spill response plan that 24 includes coordination with a qualified spill responder. 25 e. Provide staff training or coordinate with existing training efforts to educate 26 relevant staff on proper best management practices for identifying and preventing 27 spills and illicit discharges. All relevant staff must be trained by the end of the 28 permit term. 29 Identify areas of industrial activity served by the Secondary Permittee's MS4 that require coverage under the Industrial General Permit, determine whether 30 coverage has been obtained, and inform the Department if coverage has not be 31 obtained. 32 33 4. Construction Site Stormwater Runoff Control 34 The SWMP shall include a program to reduce pollutants in any stormwater runoff to 35 the MS4 from construction activities that meet the thresholds in Appendix 1 of this 36 permit. 37 The minimum performance measures are: 38 a. From the date of permit coverage, comply with all relevant ordinances, rules, and 39 regulations of the local jurisdiction(s) in which the secondary permittee is located 40 that govern construction phase stormwater pollution prevention measures. 41 b. From the date of permit coverage, seek coverage under the General NPDES 42 Permit for Stormwater Discharges Associated with Construction Activities, when 43 applicable.

1 2 3	c. Provide training or coordinate with existing training efforts to educate relevant staff in erosion and sediment control BMPs and requirements, or hire trained contractors to perform the work.
4 5	Post-Construction Stormwater Management for New Development and Redevelopment
6 7 8 9	The SWMP shall include a program to address post-construction stormwater runoff from new development and redevelopment projects that meet the thresholds in Appendix 1 of this permit. The program must ensure that controls are in place that would prevent or minimize water quality impacts.
10	The minimum performance measures are:
11 12 13 14	a. From the date of permit coverage, comply with all relevant ordinances, rules and regulations of the local jurisdiction(s) in which the secondary permittee is located that govern post-construction stormwater pollution prevention measures, including proper operation and maintenance of the MS4.
15 16 17 18	b. Provide for the post-construction stormwater controls included in Appendix 1 to be included on all new construction and other land-disturbing projects and ensure that qualified staff or contractors design post-construction stormwater controls as necessary to protect water quality on all projects.
19	6. Pollution Prevention and Good Housekeeping
20 21 22 23 24 25	All permittees must develop and implement an operation and maintenance program (O&M Plan) that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations into MS4s. Within three years from the date of permit coverage, each Secondary Permittee shall develop a municipal O&M Plan. The O&M plan shall be fully implemented no later than five years from the date of permit coverage.
26	The minimum performance measures are:
27 28 29 30 31 32	 a. The O&M Plan shall include appropriate pollution prevention and good housekeeping procedures for the following activities and/or types of facilities carried out, or under the functional control of the of the Secondary Permittee: Stormwater collection and conveyance system maintenance Drainage/ditch system maintenance Structural stormwater controls
33 34	Roads, highways, and parking lotsVehicle fleets (storage, washing, and maintenance)
35	 Equipment storage and maintenance areas
36	Material storage areas
37	Parks and open space
38 39	 Other facilities that that would reasonably be expected to discharge contaminated runoff
40 41	b. The O&M plan shall include pollution prevention/good housekeeping practices at all park areas and other open spaces maintained by the Secondary Permittee.
42	The O&M Plan must address, but is not limited to:
43	 Application of fertilizer, pesticides, and herbicides

- Sediment and erosion control
- Landscape maintenance and vegetation disposal
- Trash management
- Building exterior cleaning and maintenance
- c. The O&M Plan shall include provisions for the regular inspection and maintenance of post-construction structural BMPs. The O&M Plan shall establish facility-specific maintenance standards that are as protective or more protective than those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington.

The facility-specific maintenance standards are intended to be conditions for determining if maintenance actions are required as identified through inspection. They are not a measure of the facility's required condition at all times between inspections. Exceeding the maintenance standards between inspections and/or maintenance does not automatically constitute a violation of these standards. However, based upon inspection observations, the inspection and maintenance schedules shall be adjusted to minimize the length of time that a facility is in a condition that requires a maintenance action. These standards are violated when an inspection identifies a required maintenance action, and that action is not performed within 90 days for typical maintenance, within 6 months for revegetation, and within 1 year for maintenance that requires capital construction of less than \$5,000.

- d. Secondary Permittees shall annually inspect all post construction stormwater BMPs. The annual inspections program shall begin no later than three years from the date of permit coverage. The annual inspection schedule may be changed to a lesser or greater frequency of inspection as appropriate to ensure compliance with maintenance standards based on maintenance records of double the length of time of the proposed inspection frequency.
- e. Secondary Permittees shall properly maintain stormwater collection and conveyance systems, including but not limited to: regular inspections, cleaning, proper disposal of waste removed from the system (per Appendix 7), and record keeping.
- f. From the effective date of permit coverage, Secondary Permittees shall identify, and submit a Notice of Intent for permit coverage for all facilities operated by the Secondary Permittee that are required to be covered under the General NPDES Permit for Stormwater Discharges Associated with Industrial Activities.
- g. Secondary Permittees shall provide appropriate training for employees of the Secondary Permittee whose construction, operations, or maintenance job functions may impact stormwater quality. Training shall address the importance of protecting water quality, the requirements of this permit, operation and maintenance requirements, inspection procedures, ways to perform their job activities to prevent or minimize impacts to water quality, and procedures for reporting water quality concerns, including potential illicit discharges.

S9. REPORTING REQUIREMENTS

- A. Each Permittee, co-Permittee and secondary Permittee shall submit, no later than March 31 of each year beginning in the year 2007, an annual report. The reporting period for each annual report shall be the previous calendar year.
- B. The annual report shall include the following information:
 - Status of compliance with the conditions of this permit, including the status of
 implementing the components of the stormwater management program, and the
 implementation schedule. If permit deadlines are not met, Permittees, coPermittees and secondary Permittees shall report the reasons why the requirement
 was not met and how the requirements will be met in the future, including projected
 implementation dates. A comparison of program implementation results to
 performance standards established in this permit shall be included for each
 program area.
 - Notification of any recent or proposed annexations or incorporations resulting in an increase or decrease in permit coverage area, and implications for the stormwater management program
 - 3. Expenditures for the reporting period, with a breakdown for the components of the stormwater management program.

See previous comments. This is extremely difficult to do, and the numbers are especially questionable from divisions/departments where stormwater is not their main type of work.

- A summary describing compliance activities, including the nature and number of official enforcement actions, inspections, and types of public education activities; and
- 5. Identification of known water quality improvements or degradation.
- 6. Quantitative and qualitative evaluation of the effectiveness of the municipal stormwater permitting and program efforts in protecting and restoring water quality and beneficial uses:
- <u>a.</u> Is implementation of the Stormwater Management Program preventing impacts from the effects of new development by controlling construction and post-construction runoff?
- b. Are the Permittees preventing impacts and seeing improvements to beneficial uses by implementing a comprehensive stormwater management program?
- 7. Refinements of the Stormwater Management Program

39 C. Report Format

Each Permittee, co-Permittee or secondary Permittee shall use the attached reporting forms, in Appendix 8, which is by this reference as if set forth fully herein. Each Permittee shall complete the applicable form in its entirety. Two copies of the annual report shall be submitted to Ecology. In addition, an electronic copy of the report, in pdf format, shall be submitted to Ecology

1	[The report format was not available for review.]
2	'
3	

GENERAL CONDITIONS

G1. DISCHARGE VIOLATIONS

All discharges and activities authorized by this permit shall be consistent with the terms and conditions of this permit.

G2. PROPER OPERATION AND MAINTENANCE

The Permittee shall at all times properly operate and maintain all facilities and systems of collection, treatment, and control (and related appurtenances) which are installed or used by the Permittee for pollution control to achieve compliance with the terms and conditions of this permit.

G3. NOTIFICATION OF SPILL

If a Permittee has knowledge of a spill into a municipal storm sewer which could constitute a threat to human health, welfare, or the environment, the Permittee shall notify the Ecology regional office and other appropriate spill response authorities immediately but in no case later than within 24 hours of obtaining that knowledge. Spills which might cause bacterial contamination of shellfish, such as might result from broken sewer lines, shall be reported <u>immediately</u> to the Department of Ecology and the Department of Health, Shellfish Program. The Department of Ecology's Regional Office 24-hr. number is 425 649-7000 for NWRO and 360 407-6300 for SWRO and the Department of Health's Shellfish 24-hr. number is 360-236-3330.

G4. BYPASS PROHIBITED

The intentional *bypass* of stormwater from all or any portion of a stormwater treatment BMP whenever the design capacity of the treatment BMP is not exceeded, is prohibited unless the following conditions are met:

- A. Bypass is: (1) unavoidable to prevent loss of life, personal injury, or severe property damage; or (2) necessary to perform construction or maintenance-related activities essential to meet the requirements of the *Clean Water Act* (*CWA*); and
- B. There are no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated stormwater, or maintenance during normal dry periods.
 - "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss.

[Add to definitions.]

G5. RIGHT OF ENTRY

- The Permittee shall allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law at reasonable times:
- A. To enter upon the Permittee's premises where a discharge is located or where any records must be kept under the terms and conditions of this permit;
 - B. To have access to, and copy at reasonable cost and at reasonable times, any records that must be kept under the terms of the permit;

- C. To inspect at reasonable times any monitoring equipment or method of monitoring required in the permit;
 - D. To inspect at reasonable times any collection, treatment, pollution management, or discharge facilities; and
- 5 E. To sample at reasonable times any discharge of pollutants.

G6. DUTY TO MITIGATE

The Permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

10 G7. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

G8. COMPLIANCE WITH OTHER LAWS AND STATUTES

Nothing in the permit shall be construed as excusing the Permittee from compliance with any other applicable federal, state, or local statutes, ordinances, or regulations.

G9. MONITORING

A. Representative Sampling:

Samples and measurements taken to meet the requirements of this permit shall be representative of the volume and nature of the monitored discharge, including representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions affecting effluent quality.

B. Records Retention:

The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five years. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by the *Director*. On request, monitoring data and analysis shall be provided to Ecology.

[A 5 year retention requirement on monitoring data (the data not calibration records) is not long enough when we know that we need at least a 20 year discontinuous flow record to start to see trending. However, this should not be a permit item beyond the 5 years, but should be addressed, perhaps as a recommendation. Again, this speaks to getting us all to put money in a pot for certain monitoring functions, and this is one of them.]

C. Recording of Results:

For each measurement or sample taken, the Permittee shall record the following information: (1) the date, exact place and time of sampling; (2) the individual who performed the sampling or measurement; (3) the dates the analyses were performed;

(4) who performed the analyses; (5) the analytical techniques or methods used; and (6) the results of all analyses.

D. Test Procedures:

All sampling and analytical methods used to meet the monitoring requirements specified in the approved stormwater management program shall conform to the Guidelines Establishing Test Procedures for the Analysis of Pollutants contained in 40 CFR Part 136, unless otherwise specified in this permit or approved in writing by Ecology.

E. Flow Measurement:

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements are consistent with the accepted industry standard for that type of device. Frequency of calibration shall be in conformance with manufacturer's recommendations or at a minimum frequency of at least one calibration per year. Calibration records should be maintained for a minimum of three years.

F. Lab Accreditation:

All monitoring data, except for flow, temperature, conductivity, pH, total residual chlorine, and other exceptions approved by Ecology, shall be prepared by a laboratory registered or accredited under the provisions of, Accreditation of Environmental Laboratories, Chapter 173-50 WAC. Soils and hazardous waste data are exempted from this requirement pending accreditation of laboratories for analysis of these media by Ecology.

G. Additional Monitoring:

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G10. REMOVED SUBSTANCES

With the exception of decant from street waste vehicles, the Permittee shall not allow collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of stormwater to be resuspended or reintroduced to the storm sewer system or to waters of the state. Decant from street waste vehicles resulting from cleaning stormwater facilities may be reintroduced only when other practical means are not available and only in accordance with the Street Waste Disposal Guidelines in Appendix 7, which is by this reference as if set forth fully herein.

G11. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

G12. REVOCATION OF COVERAGE

- The director may terminate coverage under this General Permit in accordance with Chapter 43.21B RCW and Chapter 173-226 WAC. Cases where coverage may be terminated include, but are not limited to the following:
 - A. Violation of any term or condition of this general permit;
 - B. Obtaining coverage under this general permit by misrepresentation or failure to disclose fully all relevant facts;
 - C. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
 - D. A determination that the permitted activity endangers human health or the environment, or contributes significantly to water quality standards violations;
 - E. Failure or refusal of the Permittee to allow entry as required in rcw 90.48.090;
 - F. Nonpayment of permit fees assessed pursuant to rcw 90.48.465;
 - Revocation of coverage under this general permit may be initiated by Ecology or requested by any interested person.

G13. TRANSFER OF COVERAGE

The director may require any discharger authorized by this general permit to apply for and obtain an individual permit in accordance with Chapter 43.21B RCW and Chapter 173-226 WAC.

G14. GENERAL PERMIT MODIFICATION AND REVOCATION

This general permit may be modified, revoked and reissued, or terminated in accordance with the provisions of WAC 173-226-230. Grounds for modification, revocation and reissuance, or termination include, but are not limited to the following:

- A change occurs in the technology or practices for control or abatement of pollutants applicable to the category of dischargers covered under this general permit;
- B. Effluent limitation guidelines or standards are promulgated pursuant to the CWA or chapter 90.48RCW, for the category of dischargers covered under this general permit;
- C. A water quality management plan containing requirements applicable to the category of dischargers covered under this general permit is approved; or
- D. Information is obtained which indicates that cumulative effects on the environment from dischargers covered under this general permit are unacceptable.

G15. REPORTING A CAUSE FOR MODIFICATION OR REVOCATION

A Permittee who knows or has reason to believe that any activity has occurred or will occur which would constitute cause for modification or revocation and reissuance under Condition G12, G14, or 40 CFR 122.62 must report such plans, or such information, to Ecology so that a decision can be made on whether action to modify, or revoke and reissue this permit will be required. Ecology may then require submission of a new or amended application. Submission of such application does not relieve the Permittee of the duty to comply with this permit until it is modified or reissued.

G16. APPEALS

- A. The terms and conditions of this general permit, as they apply to the appropriate class of dischargers, are subject to appeal within thirty days of issuance of this general permit, in accordance with Chapter 43.21B RCW, and Chapter 173-226 WAC.
- B. The terms and conditions of this general permit, as they apply to an individual discharger, are appealable in accordance with chapter 43.21b rcw within thirty days of the effective date of coverage of that discharger. Consideration of an appeal of general permit coverage of an individual discharger is limited to the general permit's applicability or nonapplicability to that individual discharger.
- C. The appeal of general permit coverage of an individual discharger does not affect any other dischargers covered under this general permit. If the terms and conditions of this general permit are found to be inapplicable to any individual discharger(s), the matter shall be remanded to ecology for consideration of issuance of an individual permit or permits.
- D. Modifications of this permit are appealable in accordance with chapter 43.21B RCW and chapter 173-226 WAC.

G17. PENALTIES

40 CFR 122.41(a)(2) and (3), 40 CFR 122.41(j)(5), and 40 CFR 122.41(k)(2) are hereby incorporated into this permit by reference.

G18. DUTY TO REAPPLY

The Permittee must apply for permit renewal at least 180 days prior to the specified expiration date of this permit. An expired permit continues in force and effect until a new permit is issued or until Ecology cancels the permit. Only Permittes who have reapplied for coverage under this permit are covered under the continued permit.

G19. CERTIFICATION AND SIGNATURE

- All applications, reports, or information submitted to Ecology shall be signed and certified.
- A. All permit applications shall be signed by either a principal executive officer or ranking elected official.
- B. All reports required by this permit and other information requested by Ecology shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - The authorization is made in writing by a person described above and submitted to Ecology, and
 - 2. The authorization specifies either an individual or a position having responsibility for the overall development and implementation of the stormwater management program. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- C. Changes to authorization. If an authorization under General Condition G19.B.2 is no longer accurate because a different individual or position has responsibility for the overall development and implementation of the stormwater management program, a

- new authorization satisfying the requirements of General Condition G19.B.2 must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.
 - D. Certification. Any person signing a document under this permit shall make the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for willful violations."

G20. RECORDS RETENTION

Each Permittee is required to keep all records related to this permit for at least five years.

1 DEFINITIONS AND ACRONYMS

- 2 "Best Management Practices" ("BMPs") means the schedules of activities, prohibitions of
- 3 practices, maintenance procedures, and structural and/or managerial practices that when used
- 4 singly or in combination, prevent or reduce the release of pollutants and other adverse impacts
- 5 to waters of Washington State.

6 [Define beneficial uses.]

- 7 <u>Bypass</u> means the diversion of stormwater from any portion of a stormwater treatment facility.
- 8 "CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act
- 9 or Federal Water Pollution Control Act Amendments of 1972) Pub.L. 92-500, as amended Pub.
- 10 L. 95-217, Pub. L. 95-576, Pub. L. (6-483 and Pub. L. 97-117, 33 U.S.C. 1251 et.seq.
- 11 "Component" or "Program Component" means the elements of the stormwater management
- 12 program listed in Special Condition S7 or S8.
- 13 "Co-Permittee" means an owner or operator of a municipal separate storm sewer (other than an
- incorporated city) located within a large or medium muncipality, that has co-applied for a permit
- with that municipality, and that is only responsible for permit conditions relating to the discharge
- 16 for which it is operator.
- 17 "Director" means the Director of the Washington State Department of Ecology, or an authorized
- 18 representative.
- 19 "Discharge" for the purpose of this permit, unless indicated otherwise, refers to discharges from
- 20 Municipal Separate Storm Sewers of the Permittees.

21 [Define entity.]

- 22 <u>"Existing Stormwater Discharge"</u> means a discharge from a municipal separate storm sewer
- 23 constructed or vested before the effective date of this permit, at the point where it discharges to
- 24 receiving waters. An existing stormwater discharge serves an area of existing development and
- 25 does not include new stormwater sources or new stormwater outfalls
- 26 "40 CFR" means Title 40 of the Code of Federal Regulations, which is the codification of the
- 27 general and permanent rules published in the Federal Register by the executive departments
- and agencies of the federal government.
- 29 "General Permit" means a permit which covers multiple dischargers of a point source category
- within a designated geographical area, in lieu of individual permits being issued to each
- 31 discharger.
- 32 "Heavy equipment maintenance or storage yard" means an uncovered area where any heavy
- 33 equipment, such as mowing equipment, excavators, dump trucks, backhoes, or bulldozers are
- washed or regularly maintained, or where at least five pieces of heavy equipment are stored
- 35 "Illicit connection" means any man-made conveyance that is connected to a municipal separate
- 36 storm sewer without a permit, excluding roof drains and other similar type connections.

- 1 Examples include sanitary sewer connections, floor drains, channels, pipelines, conduits, inlets,
- 2 or outlets that are connected directly to the municipal separate storm sewer system.
- 3 "Illicit discharge" means any discharge to a municipal separate storm sewer that is not
- 4 composed entirely of storm water except discharges pursuant to a NPDES permit (other than
- 5 the NPDES permit for discharges from the municipal separate storm sewer) and discharges
- 6 resulting from fire fighting activities.
- 7 "Integrated Pest Management" means a coordinated decision-making and action process that
- 8 uses the most appropriate pest control methods and strategy in an environmentally and
- 9 economically sound manner to meet agency programmatic pest management objectives. The
- 10 elements of integrated pest management include:
- 11 (a) Preventing pest problems;
- 12 (b) Monitoring for the presence of pests and pest damage:
- 13 (c) Establishing the density of the pest population, that may be set at zero, that can be tolerated
- or correlated with a damage level sufficient to warrant treatment of the problem based on health,
- public safety, economic, or aesthetic thresholds;
- 16 (d) Treating pest problems to reduce populations below those levels established by damage
- 17 thresholds using strategies that may include biological, cultural, mechanical, and chemical
- control methods and that must consider human health, ecological impact, feasibility, and cost-
- 19 effectiveness; and
- 20 (e) Evaluating the effects and efficacy of pest treatments.
- 21 "Pest" means, but is not limited to, any insect, rodent, nematode, snail, slug, weed, and any
- form of plant or animal life or virus, except virus, bacteria, or other microorganisms on or in a
- 23 living person or other animal or in or on processed food or beverages or pharmaceuticals, which
- 24 is normally considered to be a pest, or which the director of the department of agriculture may
- declare to be a pest.
- 26 "Large Municipal Separate Storm Sewer System (Large MS4)" means all Municipal Separate
- 27 Storm Sewers located in an incorporated place with a population of 250,000 or more, a County
- with unincorporated urbanized areas with a population of 250,000 or more according to the
- 29 1990 decennial census by the Bureau of Census.
- 30 "Low Impact Development" (LID) means a stormwater management and land development
- 31 strategy applied at the parcel and subdivision scale that emphasizes conservation and use of
- 32 on-site natural features integrated with engineered, small-scale hydrologic controls to more
- 33 closely mimic pre-development hydrologic functions.
- 34 "Maintenance" means those actions and activities that are performed to maintain the original
- 35 line and grade, hydraulic capacity or original purpose of the facility.
- 36 "Major Municipal Separate Storm Sewer Outfall" means a municipal separate storm sewer
- outfall from a single pipe with an inside diameter of 36 inches or more, or its equivalent
- 38 (discharge from a single conveyance other than circular pipe which is associated with a
- 39 drainage area of more than 50 acres); or for municipal separate storm sewers that receive
- 40 stormwater from lands zoned for industrial activity (based on comprehensive zoning plans or the

- equivalent), an outfall that discharges from a single pipe with an inside diameter of 12 inches or
- 2 more or from its equivalent (discharge from other than a circular pipe associated with a drainage
- 3 area of 12 acres or more).
- 4 "Material Storage Facilities" means an uncovered area where bulk materials (liquid, solid,
- 5 granular, etc.) are stored in piles, barrels, tanks, bins, crates, or other means.
- 6 "Medium Municipal Separate Storm Sewer System (Medium MS4)" means all Municipal
- 7 Separate Storm Sewers (MS3s) located in an incorporated place with a population of more than
- 8 100,000 but less than 250,000, or a county with unincorporated urbanized areas of more than
- 9 100,000 but less than 250,000 according to the 1990 decennial census by the Bureau of
- 10 Census.
- 11 [Add a definition for Municipal Field Staff. Interpreted broadly, it appears that any City
- worker out in the field who can observe an illicit discharge needs to be trained and
- 13 become part of the source control efforts. At its most inclusive, this could mean garbage
- 14 truck drivers. If the training requirements were extended to garbage truck drivers, it may
- 15 <u>distract them from performing their normal duties.</u>]
- 16 "Municipal Separate Storm Sewer (MS3)" means a conveyance, or system of conveyances
- 17 (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches,
- manmade channels, or storm drains): (i) owned or operated by a state, city, town, borough,
- county, parish, district, association, or other public body (created by or pursuant to State Law)
- having jurisdiction over disposal of wastes, storm water, or other wastes, including special
- 21 districts under State Law such as a sewer district, flood control district or drainage district, or
- 22 similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and
- 23 approved management agency under section 208 of the CWA that discharges to waters of the
- United States; (ii) designed or used for collecting or conveying stormwater; (iii) which is not a
- combined sewer; and (iv) which is not part of a Publicly Owned Treatment Works (POTW) as
- 26 defined at 40 CFR 122.2.
- 27 "National Pollutant Discharge Elimination System" (NPDES) means the national program for
- issuing, modifying, revoking, and reissuing, terminating, monitoring and enforcing permits, and
- imposing and enforcing pretreatment requirements, under sections 307, 402, 318, and 405 of
- the Federal Clean Water Act, for the discharge of pollutants to surface waters of the state from
- point sources. These permits are referred to as NPDES permits and, in Washington State, are
- 32 administered by the Washington Department of Ecology.
- 33 "New Stormwater Discharge" includes new stormwater sources and new stormwater outfalls.
- 34 "New Stormwater Outfall" means a municipal separate storm sewer, at the point where it
- 35 discharges to receiving waters, that is vested after the effective date of this permit, and is
- 36 constructed at a location where a municipal separate stormwater discharge did not exist at the
- 37 effective date of the permit. A new stormwater outfall may consist of new stormwater sources.
- 38 existing stormwater sources or a combination of new and existing stormwater sources. A new
- 39 stormwater outfall does not include a replacement of an existing outfall, provided that the
- 40 replacement does not increase the volume, flow rate, or pollutant load of the discharge, and
- 41 discharges to the same water body at approximately the same location.
- 42 "New Stormwater Source" means any New Development and Redevelopment, as defined in
- 43 Appendix 1, that is vested after the effective date of this permit, increases the volume, flow rate.

- or pollutant load of the stormwater runoff from the site, and discharges to a municipal separate storm sewer owned or operated by the Permittee or co-Permittee.
- 3 "Notice of Intent" (NOI) means the application for, or a request for coverage under this General Permit pursuant to WAC 173-226-200.
- 5 "Notice of Intent for Construction Activity," and "Notice of Intent for Industrial Activity" mean the
- 6 application forms for coverage under the Construction Stormwater General Permit and the
- 7 Industrial Stormwater General Permit.
- 8 "Outfall" means point source as defined by 40 CFR 122.2 at the point where a municipal
- 9 separate storm sewer discharges to waters of the State and does not include open
- 10 conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other
- 11 conveyances which connect segments of the same stream or other waters of the State and are
- used to convey waters of the State.
- 13 "Physically Interconnected" means that one MS4 is connected to a second MS4 in such a way
- that it allows for direct discharges to the second system. For example, the roads with drainage
- systems and municipal streets of one entity are physically connected directly to a MS4
- belonging to another entity.
- 17 "Process Wastewater" means any water which, during manufacture or processing, comes into
- direct contact with or results form the production or use of any raw material, intermediate
- 19 product, finished product, by product, or waste product.
- 20 "Qualified Personnel" means someone who has had professional training in the aspects of
- stormwater management they are responsible for.
- 22 "Runoff" see Stormwater.
- 23 "Shared Waterbodies" means waterbodies, including downstream segments, lakes and
- 24 estuaries, that receive discharges from more than one Permittee.
- 25 Site-specific Information" includes but is not limited to: information in water quality
- 26 management plans such as watershed or stormwater basin plans, TMDLs, groundwater
- 27 management plans, and lake management plans; information about hydrology, soils, or the
- 28 sensitivity of the receiving waters that is obtained through professional field observations or
- 29 monitoring; and information about likely pollutant sources.
- 30 "Stormwater" means stormwater runoff, snow melt runoff, and surface runoff and drainage.
- 31 "Stormwater Associated with Industrial Activity" means the discharge from any conveyance
- 32 which is used for collecting and conveying stormwater, which is directly related to
- 33 manufacturing, processing or raw materials storage areas at an industrial plant, and is required
- 34 to have an NPDES permit in accordance with 40 CFR 122.26.
- 35 **Define Stormwater Facilities.**
- 36 "Stormwater Management Manual for Western Washington" means the 5-volume technical
- manual (Publication Nos. 05-10-029 through 05-10-033) published by Ecology in February
- 38 2005.

- 1 "Vesting" means the date, established by local government, that is used to determine which
- 2 development regulations apply to the review of a complete development permit application or
- 3 approved development permit.
- 4 "Waters of the State" includes those waters as defined as "waters of the United States" in 40
- 5 CFR Subpart 122.2 within the geographic boundaries of Washington State and "waters of the
- 6 state" as defined in Chapter 90.48 RCW which includes lakes, rivers, ponds, streams, inland
- 7 waters, underground waters, salt waters and all other surface waters and water courses within
- 8 the jurisdiction of the State of Washington.
- 9 "Water Quality Standards" means Surface Water Quality Standards, Chapter 173-201A WAC,
- 10 Ground Water Quality Standards, Chapter 173-200 WAC, and Sediment Management
- 11 Standards, Chapter 173-204 WAC.

- 13 [Comments on the appendices:
- 14 Appendix 1 Minimal Technical Requirements for New Development and Redevelopment
- 15 <u>1.</u>
- 16 Tacoma Water recommends the following addition/revision to Appendix 1.
- 17 Exemptions Low Intensity Access Roads and Parking Areas:
- 18 Maintenance access roads and low intensity parking shall be considered exempt from
- 19 Minimum Requirement #6 Runoff Treatment. Due to limited vehicular access, the
- 20 paved and/or gravel surfaces created for certain sites do not constitute Pollution
- 21 Generating Impervious Surfaces. All other minimum requirements shall apply.
- Low intensity shall be defined as access by a vehicle once a week or infrequently on a
- 23 monthly basis. Some examples of low intensity paved/gravel areas are: power
- 24 <u>substations, pump stations, reservoirs, pipeline access roads.</u>
- Note: Metal roofs of these facilities could still be considered pollution generating
- 26 <u>surfaces.</u>
- 27 **Reasoning:**
- 28 It is unreasonable and financial irresponsible to expect treatment BMPs for impervious
- surface that see minimal to no traffic. Unfortunately the Manual only provides
- designations for "High-use" sites, which is above and beyond Basic Treatment. The
- 31 Manual's expectation is if a driving surface is placed that is greater than the determined
- 32 threshold, it shall be treated.
- 33 This is erroneous because in some cases paved or gravel sites, do not generate
- pollutants of any significance. For example, a pump station may have up to 5000 square
- 35 feet of impervious paving/gravel in an area, but only have a weekly visit by one vehicle to
- 36 inspect its operation. We believe the required training for City staff to recognize and deal
- 37 with spills, along with the spill kits provided with vehicles is a more than adequate BMP
- for these municipally owned and maintained facilities. The potential for contaminant

1	release is a minimal risk compared to the associated cost for treatment and maintenance
2	of the treatment device for these facilities.
3	<u>2.</u>
4	2.4.1 - requires construction SWPPP for 2000 feet of new impervious surface or 7000 feet
5	of disturbed land.
6	Comment: New state standard effective in November is to apply SWPPP requirements
7	for developments of > 1 acre. The requirement for Permittees is excessive and should be
8	scaled back to reflect areas from previous permits.
9	
10	Appendix 4 – Water line flushing and discharges from potable water sources
11	Tacoma Water recommends the following :
12	Comment: Ecology has not defined what they mean by hyperclorinated, nor have they
13	defined what the potential problem could be regarding declorinated water discharge if it
14	has been hyperclorinated. Ecology risks coming into conflict with drinking water
15	standards and requirements placed upon water purveyors and should provide additional
16	information regarding this topic prior to adding the requirement.
17	Tacoma Water will be providing an informational memorandum to Environmental
18	Services to include with the final NPDES permit documents, describing our water supply
19	system and processes. To address this Appendix, we will particularly discuss
20	systematic flushing and our reservoir cleaning program.]
21	